

Bulletin of the

# NATIVE PLANT SOCIETY of OREGON

To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 1

January 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

19 Jan., Mon.

Meeting, 7:30 pm. in room 130, Morrow Hall, Blue Mountain Comm. College. Bob Mountain of the U.S. Forest Service will talk about the STATUS AND MANAGEMENT OF SENSITIVE PLANTS IN THE UMATILLA NAT'L. FOREST.

16 Feb., Mon.

Meeting, 7:30 pm. in room 105, Morrow Hall, BMCC. Bring slides of plants not identified. We will also plan field trips for 1987.

### Corvallis

12 Jan., Mon.

Joint dinner meeting with Society of American Foresters. Peter Frenzen, O.S.U. reseacher, will present a program on RECOVERY OF PLANTS AND ANIMALS FOLLOWING THE 1980 ERUPTIONS OF MOUNT ST. HELEN'S, WASH. Meet at North's Chuckwagon, 9th St. Corvallis, 5:30 pm. social hour, 6:30 pm. dinner and 7:30 pm. program. Buffet dinner \$5.50. Everyone please RSVP to Lou Berger, F.R.L. 754-2244 by noon, Mon. the 12th, if you plan to attend dinner and/or program.

### Emerald

12 Jan., Mon.

Meeting, 8:00 pm. Amazon Community Center, 2700 Hilyard, Eugene. Reports Session on several recent Environmental Symposia followed by a slide presentation on South Warner Wilderness, a botanically and geologically seductive area.

The reports mentioned above will cover the following Symposia:

1. The Future of Land Management in Oregon: The 40th Anniversary of the BLM.
2. Rare and Endangered Plants: A California Conference on their Conservation and Management, and The Oregon Rare Plant Conference.
3. The Big River Old Growth Preserve. How the NPSO can contribute to establishing and promoting the value of the Park.

9 Feb., Mon.

Meeting, 8:00 pm. Amazon Community Center. The Western Conifers Reasearch Cooperative: A Program Overview and Description of Research in the Pacific Northwest. Richard Olson, Program Director, will describe the current efforts being made by the Environmental Protection Agency (EPA) to determine the presence of acid rain in the west and its effects.

### High Desert

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For information, contact Stuart Garrett (382-2681).

### Mid Columbia

7 Jan., Wed.

Meeting, 7:30 pm. at the Mosier School. Slides to be shown following a brief lesson on fern identification.

### North Coast

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For information, contact Richard Smith (842-4324).

## Portland

- 13 Jan., Tues. Meeting, 7:00 pm. First United Methodist Church, 1838 SW Jefferson, Portland. Charlene Holzworth will speak and show slides of Sierra Leone, West Africa, where she worked with the Peace Corps.
- 31 Jan., Sat. Workshop, WINTER STUFF, an indoor field trip. Bring hand lense. 10:00 am. First United Methodist Church. Louise Godfrey and Esther Kennedy.
- 7 Feb., Sat. Workshop, HABITATS and preliminary strategy session for the Plant Show in June "Flowers in the Forest". 10:00 am. First United Methodist Church.

## Siskiyou

- 8 Jan., Thurs. Meeting, 7:30 pm. in room 171, Science Building, SOSOC, Ashland. Dr. Darlene Southworth will give a slide presentation on Botany in Australia. She will discuss vegetation and kinds of research being done in Australia, as well as the research she was recently engaged in at the University of Melbourne. For more information, call 482-4513.

## Willamette Valley

- 19 Jan., Mon. Meeting, 7:30 pm. in the Carrier Room, First United Methodist Church, Salem. Special two part audio-visual presentation on EARTH-MASS by Alan Minor and WALKER CREEK WETLANDS by Wendall Wood of ONRC.

## Wm. Cusick

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For information, contact Rachel Sines (963-0674).

### W E L C O M E N E W M E M B E R S

### 1987 ANNUAL MEETING

CORVALLIS  
Phillip Hayes  
Patsy Miller

PORTLAND  
Andrew Rice  
Barbara Taron

EMERALD  
Curtin Mitchell  
Bruce Schaffer

SISKIYOU  
Guy Davis  
Doris Hoover  
Dr. Paul Lemon

MID COLUMBIA  
Sheila Dale

WILLAMETTE VALLEY  
Janet Skirrow

Mark your calendar on May 9-10 for this meeting in the Columbia Gorge. Prime time for Gorge wildflowers. Headquarters will be at the Menucha Retreat and Conference Center on the Larch Mountain Road. Details and registration to be in upcoming issues of newsletter.

Virginia Diegel  
Portland

### NOMINATING COMMITTEE REPORT

The Nominating Committee announces its preliminary list of candidates for the 1987-1988 election year. Board of Directors positions:

President: Dan Luoma, Corvallis Chapter  
Vice President: Marjorie Willis, Willamette Valley Chapter

Secretary: Charlene Holzworth, Portland Chapter  
Treasurer: Marge Ettinger, High Desert Chapter  
Board Members at Large: (three positions to fill)  
Mary Mason, Portland Chapter  
Dave Gross, Mid Columbia Chapter  
Richard Smith, North Coast Chapter  
Russ Holmes, Emerald Chapter  
Esther McEvoy, Corvallis Chapter

Brief capsule resumes for each candidate will appear in the February Bulletin and the election ballot will come out in the March issue. A hearty thank you to all the candidates for their willingness to serve and thanks as well to the folks on the Nominating Committee for developing such a fine slate. More nominations will be accepted and welcomed up to January 10th by contacting Susan Kofahl at 478-3576, Box 151, Mosier, OR 97040.

### NPSO BOARD MEETING SATURDAY, JANUARY 10, 1987

The first meeting of the NPSO Board for 1987 will be held on Saturday, January 10 in Corvallis.

PLACE: Forestry Sciences Lab  
3200 Jefferson Way  
Room # 2 (Large Conference Room)

TIME: 11 am to 3 pm

Bring a sack lunch; beverages provided.

Please write or call President Rhoda Love with your agenda items or concerns before January 1. All NPSO members are welcome to attend any board meeting.



A SUMMARY OF LEADERSHIP POSITIONS - PLEASE CONSIDER SERVING NPSO

WHAT IS THE GOVERNING BODY OF THE NATIVE PLANT SOCIETY OF OREGON?

Composition

*Elected Positions*

Four statewide officers: President, Vice-President, Secretary, and Treasurer.

Immediate Past President

Six Directors-at-large

Presidents of all affiliated local chapters

*Appointed Positions*

State Conservation Chair

State Legislative Chair

State Membership Chair

R/E Chair

Bulletin Editor

Description of Duties for Elected Positions

*President*

Presides at Board Meetings which are held three times a year, and any other general membership meeting as may be called for. This includes gathering and organizing agenda items. Acts as spokesperson for the Society. Handles various telephoning and correspondence according to need. Current President estimates time spent in an average month on Society business to be approximately eight hours. Serves one-year term.

*Vice-President*

Presides at meetings in the President's absence, and performs additional functions as required. Minimal telephoning and correspondence. Current Vice-President estimates less than two hours per month average spent on Society business. Serves one year.

*Secretary*

Keeps minutes during all meetings of the Board and any statewide membership meetings. Also prepares other directives, documents, or correspondence as are needed and authorized by the Board or President. Current Secretary states she spends about eight hours after each Board Meeting organizing the minutes in report form for the next meeting and in brief summary for the next issue of the Bulletin. Serves one-year term.

*Treasurer*

Maintains accounts of the Society's transactions. Makes deposits as well as disburses funds as ordered by the Board. Remits portion of membership dues to local chapter treasurers. Makes periodic maintenance payments to the Bulletin. Accepts and records funds from the Poster and Notecard promotions. Arranges for audits as required for State charitable tax status and for the annual Statewide Meeting. Prepares reports for each Board Meeting. Current Treasurer estimates her time commitment about two to three hours each month for each Board Meeting. Current Treasurer estimates her time commitment to be two to three hours each month with slight increase around the annual Statewide Meeting. Serve one-year term.

*Board Members - Directors-at-Large*

Attend Board Meetings; provide input, vote on issues of concern. Three new directors are elected every year to serve two year terms. Travel and attendance at board meetings require about three days time per year.

*It should be emphasized that the amount of time spent in any officer capacity is most dependent upon the individual's own interest level and time frames rather than any rigid structure or formal expectations.*

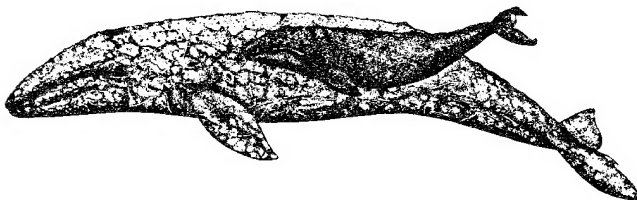
Nomination and Election Timeline

Nominating Committee members canvas their local memberships for willing candidates prior to December 1st. Preliminary slate of candidates presented in January Bulletin. Amended slate of candidates (include additional candidates as well as brief capsule resume of each candidate) presented in February Bulletin.

Official voting ballot goes to the membership in the March Bulletin. Votes to be returned by April 1st and counted by Ballot Committee. New officers installed at the annual Statewide Meeting. In 1986 this will be held June 14th and 15th in Corvallis.

Susan Kofahl

Nominating Committee Chair



Gray Whale  
(Family Eschrichtiidae)

WHALE WATCHING CRUISES WITH ONRC

Oregon Natural Resources Council is sponsoring whale watching cruises to observe gray whale migrations along the Oregon Coast every Saturday from January 10 to March 28, 1987.

The two hour cruises depart from the Embarcadero Dock, Newport, Oregon at 1 p.m. A naturalist from the Marine Science Center will accompany each tour to provide information on the gray whale and answer questions. Advance registration is required, \$15 per person. Gift certificates are available.

For more information and reservations write or call ONRC at 1161 Lincoln Street, Eugene 97401. Telephone (503) 344-0677.

## PRESIDENT'S LETTER . . .

### RARE PLANT LEGISLATION

A number of the sessions at the California Native Plant Society-sponsored "Rare and Endangered Plants: A California Conference on their Conservation and Management" dealt with state legislation for rare plant protection. This subject is extremely important and topical for us in Oregon and in NPSO at this time. Our Oregon state legislators are gathering in Salem this month and, as all Bulletin readers should realize, NPSO, with the help of other conservation groups, will be submitting an Oregon Endangered Species Bill.

For my column this month, I would like to report, from the California Conference, a few facts and figures about rare plant legislation that you, our members, might use in letters to state congresspersons and senators during this 1987 Legislative Session:

(1) In the western United States, Oregon lags well behind a number of other states in our protection of rare plants. Western states which already have comprehensive plant protection laws on the books are: California, Nevada, Arizona, New Mexico and Texas. The Washington Native Plant Society introduced an Endangered Species Bill last year and will try again for passage this year. Oregon's bill will be introduced for the first time this year. Twenty-five states now have rare plant protection laws.

(2) It is particularly shocking that Oregon has no rare plant law, because of all the contiguous 48 states, OREGON RANKS THIRD IN NUMBER OF RARE AND ENDANGERED PLANTS. Within our state boundaries grow 7% of all the rare species in the United States!

(3) California is undeniably the leader in plant protection at the present time. In California, rare plants have the best legal protection in the U. S. California has at least three laws which protect her rare plants: The Native Plant Protection Act of 1977, The California Environmental Quality Act of 1983, and The California Endangered Species Act of 1984.

(4) California was the first state to pass a single act which protects both rare plants and animals, as well as the first state to pass legislation to protect habitats. If our Oregon bill passes, Oregon will be the second state with such full coverage.

(5) In California, in compliance with the above legislation, the California Department of Fish and Game is the agency responsible for plant protection. The Department of Fish and Game protects plants under their "non-game" provisions. The program is funded partly through the California "Environmental License Plate" fund, and through the California Non-game income tax check-off. The protection of endangered species and habitats through

non-game check-off is well justified. In California, a study showed that 60% of the people who visited game preserves, were there for non-game activities such as bird-watching and enjoyment of the habitat!

The California Native Plant Society, our sister society in our neighboring state to the south, has played a lead role in the passage of all three pieces of strong legislation which now give California's native plants the best protection in the U. S. NPSOers, let's take our cue from the California folks, and get solidly behind our Society's efforts to pass the Bill that Esther McEvoy and her committee have been working on so long and hard. Write to Esther for a copy of our Bill, and then write to your representatives and visit them in Salem. It is time to protect Oregon's rare plants in the Steens, in the Gorge, in the Siskiyou, in the Wallows, in your favorite spots! Let's save our rare species before they vanish forever!

Flowers forever!  
Rhoda Love, President



### United States Department of the Interior

BUREAU OF LAND MANAGEMENT

BURNS DISTRICT OFFICE  
74 S. Alvord Street  
Burns, Oregon 97720

Native Plant Society of Oregon  
1960 NW Lovejoy No. 2  
Portland, Oregon 97209

Dear Ms. Anderson:

I know the Native Plant Society has a continued interest in the listed endangered Malheur wire lettuce on the BLM Burns District. I hope the following information can be published in one of your Newsletters to keep your members up-to-date on this plant.

#### "Stephanomeria Update"

*Stephanomeria malheurenensis* (Malheur wire lettuce) is one of two listed endangered species which occur in Oregon. It was discovered in 1966 and is of scientific value as having evolved from *S. exigua* ssp. *coronaria* through reproductive, not geographic, isolation at the only known site for the plant. For identification, the taxa are best separated by seed characteristics.

Extensive genetic studies have been conducted at University of California, Davis. Some field studies were done in the early 1970s. Since 1979, numbers of *Stephanomeria* spp. at the site have declined - cause unknown.

On July 5 Marge and Richard E. Ettinger (High Desert Chapter) reported finding two flowering *Stephanomeria* plants at BLM's South Narrows Area of Critical Environmental Concern (ACEC) - the site where *S. malheurenensis* evolved. The BLM Botanist from Burns located two sites with a total of nine plants. The sites, both anthills, were fenced with chicken wire to exclude possible rabbit grazing. The plants were later identified from seed as *S. exigua* ssp. *coronaria*, the parent taxon of the endangered *S. malheurenensis*.

*S. malheurenensis* was last seen on the site in 1982. *S. exigua* ssp. *coronaria* had last been seen there in 1984. That *S. exigua* was found in 1986 offers some hope that *S. malheurenensis* may again be found naturally.

For a month during summer 1986, Carla Davidson of the College of Idaho worked in a cooperative arrangement with BLM and F&WS gathering background data on weather and completing a general map of vegetation of the ACEC.

Activity regarding *S. malheurenensis* will increase in 1987. BLM and F&WS are cooperatively planning field and laboratory studies of factors influencing survival of the species. Dr. Gottlieb of the University of California Davis, who discovered *S. malheurenensis*, provided seeds and information on germination and establishment. F&WS is funding laboratory studies on allelopathic (toxic plant chemicals) characteristics of cheatgrass and on competition of sagebrush with *Stephanomeria*. The Berry Botanic Garden will raise seedlings to be transplanted in April into rodent-proof exclosures on the site. Arrangements will be made for a student to conduct a field study on competitive effects (if any) of cheatgrass, sagebrush and rabbitbrush. The results of the planting and study effort should provide a better understanding of how to manage the site to favor *S. malheurenensis* and should provide a new crop of seeds to continue existence of the species.

Sincerely,

Joshua L. Warburton  
District Manager



## Legislative Notes

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FEDERAL NEWS: Congress adjourned in October without reauthorizing the ESA. Yet, the continuing resolution funding the endangered species program during FY 1987 is quite good.

STATE NEWS: As I write this article our Endangered Species Conservation Bill is being worked into final draft form. In January the Legislative Council will have worked our draft into a bill with a number.

Thank you, one and all, for comments and help on the bill so far. We will incorporate many of the comments into this final draft. Our efforts have been assisted by many within the NPSO including Julie Kierstead, Rick Brown and Rhoda Love. Andy Kerr and Wendall Wood of Oregon Natural Resources Council have been most helpful.

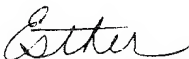
Members of the Corvallis Chapter of Audubon have been helping with the brochure and have attended many of the legislative meetings. Representative Karl Hostika, who supports our work, has given us a legislative aid who will draft our bill. A special thank you to our representative from Eugene! Caryn Throop from Bend is helping us with legislative procedures and tactics. Also I must mention that a special thank you goes to all the friends who have attended the past legislative committee meetings.

Now as our bill approaches the legislative session in January the hardest task of all is before us. We must work together to convince our representatives that Oregon must protect its endangered native flora and fauna. You should begin to contact your representatives and ask them to support our efforts.

In January we will have a brochure, slide show and fact sheet ready to help wage our campaign.

NEXT LEGISLATIVE COMMITTEE MEETING:  
\* SATURDAY, JANUARY 17, 1987, 10 a.m.-2p.m.  
\* STRATEGY FOR GETTING OUR BILL PASSED  
\* SALEM LIBRARY, 585 Liberty St. SE, Salem

The Draft Environmental Impact Statement (DEIS) for the Siuslaw National Forest is out. Comments are due by February 15, 1987. Our comments will help select the best alternative for managing the Siuslaw National Forest for the next 10 to 15 years. A list of potential Research Natural Areas has not been addressed in any alternative. It is extremely important to have input on this section of the DEIS. Have you been to any of these proposed RNAs? Cummins/Gwynn Creeks, Threemile Creek, Tenmile Creek, Sand Lake, Reneke Creek? Do you know of any places that warrant RNA status that are not included in the plan? For more information contact your local Forest Service office.

  
Esther Gruber McEvoy  
State Legislative Chair

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### PORTLAND CHAPTER MEMBERS - PLEASE NOTE

Since more than one quarter ( $\frac{1}{4}$ ) of Portland Chapter membership rarely appears at a meeting, I thought it would be worthwhile to communicate with the entire membership through a note in the Bulletin.

The New Year brings our chapter to an extremely busy six (6) months, which I am hoping will give all of us an opportunity to participate in and to enjoy the scheduled activities. Of course we shall have our usual winter workshops and field trips, and if you haven't been to recent meetings, there are other functions of which you need to be aware.

In the spring we shall be planting Barrett's penstemon (P. barrettiae). Plants grown at the Berry Botanic Garden from cuttings and seeds taken from the area where they grow along the Columbia River on the site for the new navigation lock (see your July Bulletin) will be used. As Julie Kierstead has written: "on-site conservation of endangered plants in their natural habitats is always the best and safest strategy, and .... transplantation is a last resort, (in) the case of Barrett's penstemon at Bonneville - rerouting the lock construction was not an option".

We have been asked by The Nature Conservancy to give a day to pulling knapweed (Centaurea) on the Tom McCall Preserve at Rowena. This noxious plant is described in the November Bulletin.

The Portland Chapter is to host the 1987 State NPSO Annual Meeting and banquet.

The native plant show titled "Flowers of the Forest" will be presented by our chapter in June.

Obviously all of these events require people to make them happen and the latter two functions necessitate much planning. Virginia Diegel is chairperson of the Annual Meeting Committee and Jeanne Huffstutter chairs the Plant Show Committee. They will need help.

Another matter is membership. If you have a friend who is interested in the NPSO purpose (see the front page of this Bulletin) give them the membership form (see the last page of this Bulletin) or a gift membership.

Herb Armentrout  
President, Portland Chapter



## More Wildflower Interest, Less Conservation

The great surge in popularity of wildflowers over the past decade has resulted not only in a greater public awareness of our country's native plant heritage, but also in an intense demand for these garden-worthy specimens. Most native plant organizations promote the appreciation of wildflowers in order to conserve them and their habitats. However, it may be that their popularity endangers these plants in the wild as gardeners and nurserymen dig them to satisfy increased public demand. Perhaps, the conservation part of "wildflower promotion" deserves greater emphasis and clarification.

Why is native plant conservation so important? The value of these plants in the wild far exceeds their aesthetic appeal to mankind. Each wild plant is an integral component of its habitat and ecosystem. Ecologists estimate that when a plant species vanishes, as many as twelve other dependent plant or animal species also become extinct. Humanity depends directly and indirectly on many various species for air, food, shelter and medicines. If the present rate of extinction continues, the earth could be uninhabitable for people in only a century.

Unfortunately, a "healthy" American economy means a rise in land development. The resulting habitat destruction often destroys colonies of many native plants. Collecting from the wild for gardening enjoyment exacerbates the problem. The only ethical reason for digging plants in the wild is to rescue them from certain habitat destruction in order to transplant them into safe and suitable havens.

Some professional and amateur horticulturists practice "ethical collecting" -- thinning colonies and using this stock to propagate progeny for distribution. However, ethical collecting should be practiced only by individuals with an extensive knowledge of native plant biology, only on colonies which can quickly replenish their numbers, and only for purposes of propagation. These wild colonies must be carefully monitored over time in order to allow an ample recovery period. Indeed, too many colonies of wildflowers like Trillium, Lady's Slippers, and Woodferns have been wiped out by collectors who consider themselves ethical.

People who appreciate wildflowers must also conserve wild stands and habitats. Is there a way to satisfy today's wildflower demands which is ethical? The answer is an emphatic yes; it is called propagation. Plant propagation is accomplished through a variety of horticultural techniques which cause plants to reproduce themselves, often in abundant numbers. These techniques include seed germination, rooting cuttings, division, and tissue culture. Most wildflowers are propagated easily by one method or another. Often gardeners can acquire seeds from botanical gardens and native plant organizations across the United States.

Many nurseries still buy and sell wild-collected wildflowers. Customers always should ask the



nurserymen how they acquire the wildflowers they sell, and buy only propagated material. This practice will shift the demand toward propagation, so that conservation will become more economically profitable. Some plants, like Pink Lady's Slippers and other wild orchids, never should be purchased from nurseries for two reasons: first, there is no known method for propagating these plants; therefore, they are bound to be wild-collected. Second, these plants seldom survive the trauma of digging, storage, shipping and transplanting beyond one or two years. Buying these plants equates with paying for their destruction! Most nurseries are aware of this fact, so those which sell these plants obviously care more about short term profit than conservation ethics.

The New England Wild Flower Society (and the Native Plant Society of Oregon) constantly urges its membership to purchase propagated wildflowers instead of collected wildflowers. Propagated plants have much healthier root systems, and generally survive handling with much better long-term results.

The ethical solution for acquiring native plants for our gardens is to buy only propagated material, or to propagate our own. Otherwise, we stand to lose a critical part of our natural heritage, and quite likely -- much, much more.

*Continued on next page*

## SUGGESTED READING FOR HOME GARDENERS

Browse, Philip M. Plant Propagation. Simon & Schuster, Inc., New York, NY, 1979.

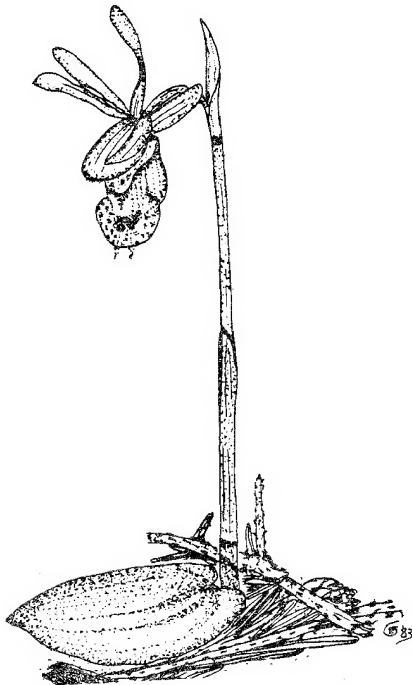
National Council of State Garden Clubs. Directory of Resources on Wildflower Propagation. Missouri Botanical Gardens, St. Louis, MO, 1981. (Available from National Council Headquarters, 4401 Magnolia Ave., St. Louis, MO 63110 for \$3 to pay for postage and handling.)

Phillips, Harry R. Growing and Propagating Wild Flowers. Univ. of North Carolina Press, Chapel Hill, NC, 1985.

James A Young & Cheryl G. Young. Collecting, Processing and Germinating Seeds of Wildland Plants. Timber Press, Portland, OR, 1986.

David Longland, Director of Garden in the Woods, the New England Wild Flower Society's botanical garden in Maine

(This article appeared in the November, 1986, issue of The Columbine, newsletter of the National Council of State Garden Clubs, Inc.)



drawing by Julie Kierstead



## RARE PLANT CONFERENCE HELD IN EUGENE

Autumn always seems to be marked by meetings and conferences, and this one has been no exception. The weekend of October 18-19 was given over to the Oregon Rare Plant Conference, held in Eugene and attended by botanists from the Bureau of Land Management, U.S. Forest Service, The Nature Conservancy, Native Plant Society of Oregon, and several colleges and universities.

The first day of the conference was devoted to adjusting the status (recognized degree of endangerment) of various species for which new information has become available since the last status review. These conferences are usually held every two years.

A few examples of status changes:

Arabis suffrutescens var. horizontalis, Crater Lake rock cress, was this summer confirmed extant, so its status changes from "possibly extinct" to "endangered throughout range".

Sullivantia oregana, Oregon sullivantia, changes from "threatened in Oregon but more common elsewhere" to "threatened throughout range" because the Washington Natural Heritage Program now considers it threatened in that state.

Lomatium nelsonianum, Nelson's lomatium, is being dropped from the "endangered throughout range" category to no status whatsoever on the basis of Dr. Lincoln Constance's opinion that it is not a valid species but is rather a mixed bag of Lomatium hallii and L. dissectum. Dr. Constance is a well-known authority on the systematics of this complex genus.

In all more than a hundred status changes were debated and agreed upon, more or less. The next edition of Rare, Threatened, and Endangered Plants and Animals of Oregon, published by the Oregon Natural Heritage Data Base and due out early next year, will reflect the changes.

Sunday was spent on other topics germane to the subject of native plant conservation, such as a discussion of upcoming state legislation, updates on U.S. Fish & Wildlife contracts and the Berry Botanic Garden's propagation and storage of rare Northwest plants, tips on writing Species Management Guides, and an overview of Oregon State Parks' plant protection efforts.

The conference was sponsored by the University of Oregon, Oregon Natural Heritage Data Base, and the Berry Botanic Garden. About 45 people attended.

# Job announcements

## ANNOUNCEMENT 1987 INTERNSHIPS

The Nature Conservancy  
Oregon Field Office

**Lower Table Rock Internship** - The Table Rock Intern will be responsible for carrying out management and research activities on Upper and Lower Table Rock near Medford, Oregon. Responsibilities will include vegetation and rare plant monitoring, public education and preserve maintenance. The internship is jointly sponsored and supervised by The Nature Conservancy and the Bureau of Land Management. It will run from approximately March 20 - June 20th. Applicants must have a strong familiarity with the flora of southwestern Oregon (including an ability to identify grasses), vegetation sampling methods and environmental education. The intern will receive a salary of \$725/month.

APPLICATION DEADLINE: FEBRUARY 10, 1987

**Forest Ecologist Internship** - The forest ecologist intern will be responsible for establishing long term monitoring and conducting research to evaluate preserve design and analyze management problems related to windthrow and fire suppression on four preserves. Applicants should have a strong background in forest ecology, fire ecology, and sampling techniques and the ability to work independently. The intern will be required to camp during a majority of the internship. The internship will begin in May/June and will last three months. The intern will receive a salary of between \$7500 - \$1000/mo depending on experience.

APPLICATION DEADLINE: MARCH 30, 1987

**Cascade Head Internship** - The Cascade Head Intern will be responsible for carrying out management and research activities on our Cascade Head Preserve, near Lincoln City. Primary duties will include vegetation sampling, public education and preserve maintenance. The position will run from June 20th through September 20th. Applicants must have a strong familiarity with the flora of the Oregon coast (including ability to identify grasses) and sampling methods. Background in entomology is also desired. The intern will receive a salary of \$675/mo plus housing.

APPLICATION DEADLINE: MARCH 30, 1987

**Field Botanist/Ecologist Intern** - The field botanist/ecologist intern will assist TNC staff with research and long term monitoring on preserves throughout the state. The position will run from May through July. Extensive botanical experience is not required but the intern must be enthusiastic and willing to put in long hours sampling vegetation plots. The intern will spend large blocks of time in the field camping out. The intern will receive a salary of \$500/mo.

APPLICATION DEADLINE: MARCH 30, 1987

Applications must include a resume, two letters of reference and a cover letter that provides more detailed information on your academic and professional experience. For more information contact:

Catherine A. Macdonald  
Oregon Land Steward  
The Nature Conservancy  
1234 NW 25th  
Portland, Oregon 97210  
(503) 228-9561

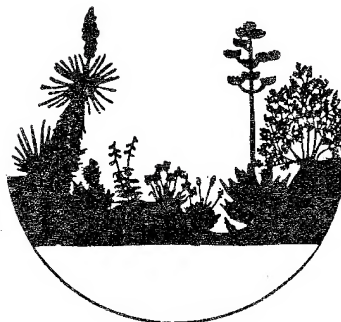
## NEW RELEASE DATE

The new release date for the BLM Supplementary Wilderness EIS is January 23. Hearings will be held in mid-March. To receive a copy, write to:

BLM Public Affairs  
P.O. Box 2965  
Portland, Oregon 97208

## NATIVE PLANT SOCIETY of NEW MEXICO

announces



## SOUTHWESTERN NATIVE PLANTS SYMPOSIUM

June 18-19, 1987

Albuquerque, New Mexico

### SPONSORSHIP AND PLANNING:

The Native Plant Society of New Mexico is the host organization. The symposium will convene in Albuquerque, New Mexico on the campus of the University of New Mexico June 18-19, 1987. Other supporters include the New Mexico State University Cooperative Extension Service, the NMSU Agricultural Science Center at Los Lunas, and many professional and trade organizations.

### SOUTHWESTERN NATIVE PLANT SYMPOSIUM

If you wish to receive further information regarding the Southwestern Native Plant Symposium, you MUST return this form (or a copy) by February 1, 1987 to Native Plant Symposium, NPS-NM, P.O. Box 934 Los Lunas NM 87031.

Name \_\_\_\_\_ Title \_\_\_\_\_  
Organization \_\_\_\_\_  
Address \_\_\_\_\_ Phone (s/c) \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please send me information on the following:

- ☐ Registration form and program announcement (with information on field trips, paper/poster sessions, symposia, social activities, etc.)
- ☐ Abstract and paper/poster format instructions.
- ☐ Commercial display space
- ☐ Nonprofit display space

### STATE COMMITTEE CHAIRS

NPSO Wildflower Poster . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR, 97040; 478-3576

Notecards . . . . . George Lewis  
8230 SW Cashmure Lane, Portland, OR, 97225; 292-0415

T-Shirts . . . . . Evelyn Everett  
4135 Alder St., Eugene, OR, 97405; 345-1746

### THE THEME:

Because of climate, precipitation, soils and topography, the native floras in the Southwest offer exciting potential for research and development. Those same variables create distinct and sometimes fragile ecosystems that demand appreciation and preservation. The symposium strives to bring together people who share common interests in southwestern plants. Topics to be covered include: Conservation, Landscaping, Propagation, Ethnobotany and Economic and Commercial Uses. Participants will range from scientists and scholars to horticultural professionals and interested amateurs.

### THE PROGRAM:

Invited speakers, symposia, contributed papers, panel discussions and poster session make up the busy program. One morning will be devoted to a choice of field trips to vegetation communities of the Albuquerque area or to native plant gardens. Social activities will include a speakers reception. Exhibits and displays will also be provided.

### CALL FOR PAPERS:

Anyone who wishes to participate is encouraged to submit proposals for papers, slide programs, panel discussions or poster presentations. Send a one-page abstract of your proposal by January 15, 1987 to: Program Committee, Native Plant Society of New Mexico, P.O. Box 934, Los Lunas, NM 87031.

### PROGRAM & REGISTRATION INFORMATION

Symposium program information which will include registration forms and information on fees, field trips and other scheduled activities will be mailed to all who respond to this announcement. To receive this, you must complete and return the form (or facsimile) shown on this announcement.

### ENQUIRIES:

For further information write Southwest Native Plant Symposium, NPS-NM, P.O. Box 934, Los Lunas, New Mexico 87031. Telephone inquiries should be made to Lisa Johnston (505) 865-5608.



# STATE OFFICERS

President . . . . . Rhoda Love  
393 Pul Vue Drive, Eugene, OR, 97405; 345-6241  
Vice President . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR, 97040; 478-3576  
Secretary . . . . . Florence Ebeling  
7725 SW 82nd Ave., Portland, OR, 97223; 244-4122  
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Legislative Chair . . . . . Esther McEvoy  
3290 SW Willamette, Corvallis, OR, 97333; 754-0893  
Desert Wilderness Coordinator . . . . . Julie Kierstead  
11505 SW Summerville, Portland, OR, 97219; 636-4112

## CHAPTER PRESIDENTS

Blue Mountain (NE Oregon) . . . . . Bruce Barnes  
731 NW 5th, Pendleton, OR, 97801; 276-5547  
Corvallis . . . . . Angie Svenden  
PO Box 1838, Corvallis, OR, 97339; 757-2806  
Emerald (Eugene area) . . . . . Gail Baker  
2424 Harris St., Eugene, OR, 97405;  
High Desert (Bend area) . . . . . Stuart Garrett  
361 NE Franklin, Bend, OR, 97701; 382-2681  
Mid-Columbia . . . . . Keith Chamberlain  
Box 151, Mosier, OR, 97040; 478-3314  
North Coast . . . . . Richard Smith  
1605 Third St., Tillamook, OR 97141; 842-4324  
Portland . . . . . Herb Armentrout  
20060 SE Hwy 224, Clackamas, OR, 97015; 658-2751  
Siskiyou (SW Oregon) . . . . . Ron Nitsos  
Biology Dept 305C, Ashland, OR, 97520; 482-6341  
Willamette Valley (Salem area) . . . . . Susan Kephart  
Biology/Willamette Univ, Salem, OR, 97301; 370-6481/371-7161  
Wm. Cusick (LaGrande area) . . . . . Rachel Sines  
504 C Ave., LaGrande, OR, 97850; 963-0674

## MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
Membership in the Native Plant Society of Oregon is open  
to all. Membership applications & changes of address  
(including old address & zip code) should be sent to the  
membership chair.

## BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
the 10th of the month & should be sent to the editor.  
News, articles, photos, drawings, & non-copyrighted  
materials are welcomed.

## GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed,  
camera-ready copy is much appreciated. But  
no submission will be rejected because it is  
not typed. Please proofread & check facts.  
DEADLINE: 10th of each month

FORMAT: Copy should be typed in 4 1/4 inch wide  
columns, of any length. Author's name & chap-  
ter affiliation (or other organization) are  
typed at the end of the article. There is no  
standard paragraph treatment; one of these  
is suggested:

\* for long articles, double space between  
paragraphs, but do not indent the first  
word of the paragraph

\* for short articles or short paragraphs,  
when double spacing looks odd, indent  
the first word of the paragraph instead

Type your own headline, centered, all caps.  
In case of special formats, e.g. plant keys,  
you are free to choose the layout.

CREDITS: For each submission, provide

\* title

\* author--specify whether byline is desired  
for news items

\* instructions as to whether item is to be  
used in entirety or excerpted at editor's  
discretion

\* source & date if item is not original

ILLUSTRATIONS: black & white prints, ink  
drawings, woodcuts, halftones, et al. We  
welcome small doodles as well as larger  
efforts. Please give source & date, if not  
original.

SCIENTIFIC NAMES should follow Hitchcock &  
Cronquist's Flora of the Pacific Northwest  
where possible. Use of both scientific &  
common names is encouraged. Genus & species  
names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustra-  
tions will not be returned unless it is  
requested.

The Bulletin is published as a service to  
NPSO members & the public. Your suggestions  
& comments are always welcome.

# # #

## NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

CHAPTER (if known) \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

IS THIS A CHANGE OF ADDRESS? If so please  
write your OLD ADDRESS:

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\* DUES include monthly news bulletin. Full membership runs from January through December. Quarter member-  
ship runs from September through December.

( ) NEW ( ) QUARTER MEMBERSHIP (\$2.50) ( ) RENEWAL

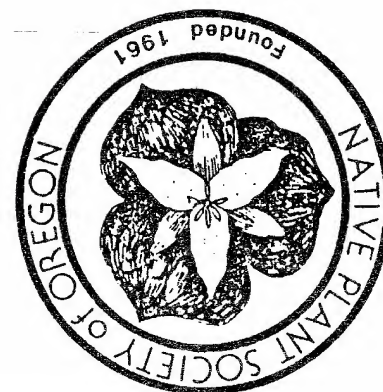
( ) Student . . . . .	\$ 7.50	( ) Sustaining . . . . .	\$ 25.00
( ) Regular . . . . .	10.00	( ) Patron . . . . .	100.00
( ) Family membership . . . . .	15.00	( ) Life member . . . . .	500.00

\*CONTRIBUTIONS: Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_  
Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

\*All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible.  
Please make checks for dues & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form  
& full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.

TIME DATED MAIL

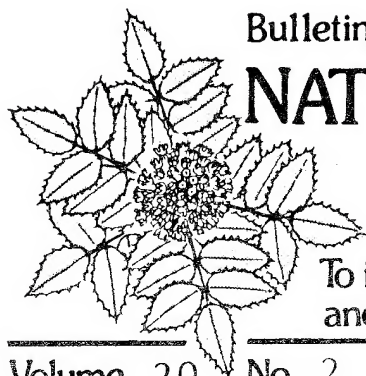
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Portland, OR 97209

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To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 2

February 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

16 Feb., Mon.

Meeting, 7:30 pm. in room 105, Morrow Hall, Blue Mountain Community College. Bring slides of plants not identified. We will also plan trips for 1987.

### Corvallis

9 Feb., Mon.

Meeting, 7:30 pm. in room 205, Withycombe Hall, OSU. Ed Alverson of the Botany Dept. will give a slide show and talk on the vegetation of Thurston County, Washington, with comparisons to local flora of the Willamette Valley.

### Emerald

9 Feb., Mon.

Meeting, 8:00 pm. Amazon Community Center. The Western Conifers Research Cooperative: A program overview and description of research in the Pacific Northwest. Richard Olson, Program Director, will describe the current efforts being made by the Environmental Protection Agency (EPA) to determine the presence of acid rain in the west and its effects.

### High Desert

-----

For information, contact Stuart Garrett (382-2681).

### Mid Columbia

4 Feb., Wed.

Meeting, 7:30 pm. at Pietro's Pizza Place, 3320 W. 6th Street, The Dalles. Mary Jean Sargent will present a slide program of "Plants and Places in Australia and New Zealand". Come earlier and join us for pizza.

### North Coast

-----

For information, contact Roy Peters (842-9284).

### Portland

7 Feb., Sat.

Workshop, 10:00 am., First United Methodist Church, 1838 SW Jefferson, Portland. This workshop will be on "Habitats" and preliminary strategy session for the Plant Show in June titled "Flowers in the Forest".

10 Feb., Tues.

Meeting, 7:00 pm. First United Methodist Church. Wendell Wood of the Oregon Natural Resources Council will present a program featuring the alpine flora and landscapes of the Steens Mountain.

21 Feb., Sat.

Workshop, 10:00 am. First United Methodist Church. FERNs; bring hand lens. Leader will be Florence Ebeling.

28 Feb., Sat.

Workshop, 10:00 am. MOSSES; bring hand lens and moss books if you have them. This workshop is to be followed with a field trip in March. Leader is John Marsh.



7 March, Sat. First field trip!! East end of Columbia Gorge. Meet at 8:00 am at the K-Mart, NE 122nd and Sandy Blvd., south end of the parking lot or meet the leader in Hood River at 9:30 am at Hood River Inn parking lot. Leader is Keith Chamberlain(478-3314).

## Siskiyou

12 Feb., Thurs. Meeting, 7:30 pm. in room 171 of the Science Building at SOSO. Joan Seevers and Rick Prusz will give a slide presentation on Spring Bloom on California's Deserts. For more information, call Jan Larson at 482-4513.

## Willamette Valley

16 Feb., Mon. Meeting, 7:30 pm. First United Methodist Church, corner of SE Church and State Sts., Salem. (Use Church St. entrance.) Margorie Willis will present a lecture and slide program on the Natural History of Costa Rica.

## Wm. Cusick

- - - - -

For information, contact Rachel Sines (963-0674).

### RENEW! RENEW! RENEW! PLEASE

If you haven't renewed your NPSO membership for 1987, this will be your last Bulletin. Please send in your dues if you have not done so already.

### CORRECTION

In last month's Bulletin, the drawing of Calypso was credited to Julie Kierstead. Esther McEvoy was the artist for this drawing; Julie drew the picture of Cypripedium montanum on the opposite page.

### JOB ANNOUNCEMENT

#### TEMPORARY BOTANIST -- BUREAU OF LAND MANAGEMENT

The Roseburg District is seeking a botanist to conduct a comprehensive vegetation inventory of a Designated Research Natural Area. Responsibilities will include delineating plant communities, compiling plant species lists, preparing specimens for the District herbarium, and taking photographs to be used in publications and public presentations. Additional responsibilities in both the RNA and sensitive plant programs will be assigned as time permits. The appointment will be for three months beginning March 2, 1987. For further information contact:

Russ Holmes  
Bureau of Land Management  
777 N.W. Garden Valley Blvd.  
Roseburg, OR 97470  
phone 503 672-4491

### LONG DRAW RESEARCH NATURAL AREA

From a distance Long Draw basin is treeless, rolling, and spacious under a vast desert sky. In June it is a gray and brown landscape that looks parched, like the dusty rutted roads that lead to this obscure arroyo in southeast Oregon. Long Draw RNA doesn't look like a interesting botanical site, at first glance.

But we found nearly 100 plant species in the RNA, and only four of these were not native. Most of the 440 acres were essentially weed-free. Even Bromus tectorum (cheatgrass), the scourge of arid ecosystems, was common only along the access road and the eroding banks of Long Draw wash.

Artemisia tridentata (big sage) dominated the native species over the rest of the RNA. Crepis acuminata (long-leaved hawksbeard) and Eriogonum ovalifolium (oval-leaved eriogonum) blazed in yellow masses in the late afternoon sunlight. Chorizanthe watsonii (Watson's spineflower) was scattered on open slopes, resembling jumbles of tiny chartreuse toothpicks. The most bizarre plant was Glyptopleura marginata (carved-seed), with its flowers and sculpted fruits hidden in rosettes. Each leaf margin was white with an intricate frost-like fringe.

NPSO funded our exploration of Long Draw RNA, and we are happy to report to the grant-givers that we located five plants that are locally rare in Oregon: Astragalus alvordensis (Alvord milkvetch), A. tetrapterus (4-winged milkvetch), Calochortis bruneaunis (sego lily), Cryptantha propria (Idaho cryptantha) and Silene scaposa spp. lobata (scapose silene).

Peter Zika and Lois Kemp  
Portland Chapter

(For copies of this report, write to Barbara Fox at 11455 SE 35th, Milwaukie, OR 97222.)

STATE NEWS: As I write this article the legislative council is finishing the final draft of our bill. Before you receive this bulletin, our bill should have a number and be on its way!

In our bill, the Division of State Lands (DSL) will be given the authority for plants and the Department of Fish and Wildlife (ODFW) will have authority over animals including terrestrial invertebrates. The following is a list of the main statutory authorities in our bill that will be given to the agencies:

- 1) Authority to keep data on all species in Oregon
- 2) Authority to list species as Endangered or Threatened based on biological data
- 3) Authority to require other state agencies to comply
- 4) Authority to restrict taking of listed species
- 5) Authority to acquire critical habitat and manage it for conservation of species
- 6) Authority to develop and implement recovery plans.
- 7) Authority to penalize violations
- 8) Authority to issue permits for authorized taking
- 9) Authority to exempt specified projects from compliance

A brochure, slide show, and education packet will be available in February. I will be sending information to the chapter presidents as soon as it is available. If you are interested in helping in any capacity, please drop me a note.

We need volunteers to write letters, attend and testify at hearings, help with mailings, telephone legislators, and many other actions. It is very important for each of you out there to contact your representatives once you have the information on the bill. Phone calls will be most important as the bill gets into the session. We will be setting up phone trees to alert members of critical periods in the progress of our bill.

On another note, comments are due by February 15, 1987 on the DEIS for the Siuslaw National Forest. Two areas that should be mentioned in your letters are Reneke Creek and Sand Lake. Neither of these areas are included in the preferred alternative, and they should be.

Reneke Creek has two parallel water sheds dominated by a natural stand of red alder. This potential RNA is being jeopardized by timber harvest in part of the area. This harvest would remove the alder and alter the aquatic and terrestrial systems, rendering the area useless as baselines for scientific study.

Sand Lake has active parabola sand dunes that extend inland from the ocean with an adjacent old growth spruce forest. You should comment that this RNA should be

included in the preferred alternative. It should be designated to protect the maximum extent of sand dunes and old growth.

On a final note, one should state that we would like to see the Siuslaw continue to research their lands for potential RNA's.

Remember this is the year of our Endangered Species Bill. Try to help in any capacity you can. Donations will always be welcome for the Legislative Fund.

Thank you. Esther Gruber McEvoy  
State Legislative Chair

Donations to the Legislative Fund should be sent to Esther McEvoy, 3290 SW Willamette, Corvallis, OR 97333. Checks should be made out to NPSO.

#### FOREST & COASTAL WORKERS NEEDED

NPSO badly needs two more people for its state conservation committee: a Forest Issues Coordinator and a Coastal Issues Coordinator. NPSO's board of directors authorized this change at its Fall 1986 meeting.

The State Conservation Committee now consists of a State Conservation Chairman and one or more members from each chapter. Chapter representatives are chairmen of their own chapters' conservation committees. In cases where a chapter has no designated Conservation Chairman the chapter president serves.

The benefits of taking on one of these volunteer positions include: better understanding of public institutions, the chance to affect important land use decisions, opportunities to meet some wonderful people, access to information otherwise not routinely available to the public, and the great feeling of doing something concretely positive for Oregon's native flora.

No formal training is necessary, just an interest in public lands and public policy and a willingness to learn the acronyms with which bureaucrats communicate. The time required varies from 4-30 hours per month depending on the issues that come up and one's interest in those particular issues. It's not possible to stay on top of everything, so conservation committee members are expected to set their own priorities and their own hours.

These two new positions are statewide in scope, though obviously the Coastal Issues Coordinator will concentrate on a limited area of the state. Local chapter conservation committees are able to take the lead on local issues (for example, review of a local forest plan) and there are many other resources available. The present State Conservation Chairman will continue to concentrate on BLM issues statewide.

To volunteer for either position or to find out more contact NPSO President Rhoda Love, 345-6241, or State Conservation Chairman Julie Kierstead, 760-6872.

## Jean Davis Award: Deadline 4/1

PLEASE COMMENT

### NATIVE PLANT SOCIETY OF OREGON

#### DRAFT GUIDELINES FOR THE SALE OF MEMBERSHIP LISTS AND ADVERTISEMENTS

NPSO will award a scholarship to a worthy student in an Oregon college, with his or her major study in plant systematics or plant ecology. The scholarship is in the amount of \$1,000, and is to be used toward the student's tuition within the following academic year. Deadline for applications is April 1, 1987; the award will be made by May 1, 1987.

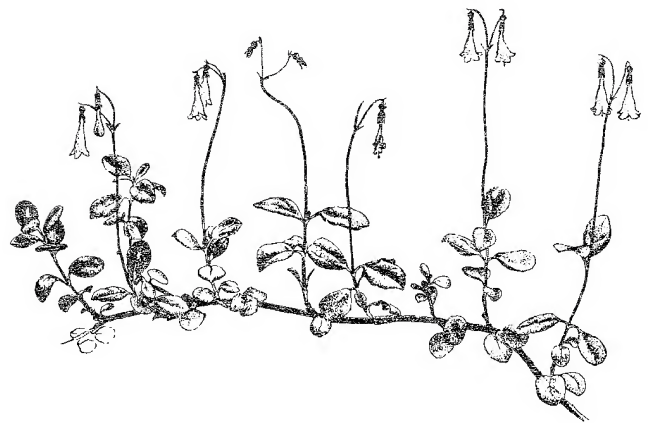
Donations to the scholarship fund are tax deductible and are welcome at any time. All interest earned from the donations is apportioned out to as many scholarships as possible in the spring of each year, at \$1,000 each.

All communication regarding this fund should be addressed to Mary Falconer, Committee chairman, 1920 Engel Ave. NW, Salem, OR 97304.

#### \* \* Rules for Scholarship Awards \* \*

- 1) Scholarships are available to students in Oregon colleges, planning their major study in Plant systematics or ecology.
- 2) Scholarships are awarded in the amount of \$1,000 to worthy students who will complete at least 2 years of satisfactory college work by July 1 of the year of receipt of application, & are full time students. Graduate students may be eligible if they meet all qualifications except that of "full time student".
- 3) Awards are made in the following manner:
  - a) a certificate presented to the recipient
  - b) a check in the amount of the award, submitted to the school of choice, as set forth in rule 1, to be used toward tuition within the following academic year
- 4) If an award recipient fails to enroll, changes his or her major, or leaves the school before completing the period for which the award was granted, the full amount or unused part of the money shall be returned to the Jean Davis Memorial Scholarship Fund.
- 5) Applicants are required to submit:
  - a) in their own handwriting, a statement of academic & career intent
  - b) two letters of reference from persons able to judge to student's ability to successfully complete study in the area of plant systematics or plant ecology
- 6) All applications together with items listed in rule 5 must be received by the Chairman of the Jean Davis Memorial Fund Committee no later than April 1. The award will be made by May 1.
- 7) Scholarships are not granted to members or relatives of any person currently serving on the Scholarship Committee.

1. Lists and advertising space in the Bulletin will be sold only to those organizations that will provide a service to the membership that is in keeping with the aims and objectives of the Native Plant Society of Oregon. These include commercial enterprises such as bookstores, plant nurseries, museum stores, and other environmental organizations.
2. The lists and advertising may be used for the sales of goods and services, but not for the solicitation of funds or political support for causes or candidates.
3. Approval of the sale of membership lists to qualified groups will be given at the quarterly board meeting by a vote of the board upon the recommendation of the president and editor.
4. The publication of advertising will be at the discretion of the editor based on the criteria listed above and the space available. In the case of questionable advertising, the editor may seek the advice of the president and/or the board.
5. Sets of mailing labels will be sold at \$0.10 per name plus the cost of the labels.
6. Purchasers will be asked to sign an agreement that they will not make extra copies of our membership list for their own use.
7. Purchasers will be responsible for placing their own labels on their own mailing.
8. Camera ready advertising copy will be printed in the Bulletin at the following rates: Full page (7 1/2 x 9 1/2 in.), \$50.00; half page (7 1/2 x 4 3/4 in.) \$25.00; quarter page, (3 1/2 x 4 3/4 in.) \$15.00.
9. A classified section should be established in the Bulletin and advertising sold at the rate of \$0.25 per word with a maximum of 24 words.
10. The Native Plant Society can not include insert advertising material with our materials with out endangering our permit status. We may, however, run advertisements as a part of the Bulletin.



*Drawing by Ramona P. Hammerly, from Northwest Trees, by Stephen F. Arno & Ramona P. Hammerly, The Mountaineers Books, Seattle.*



Here it is! A more close-up view of our NPSO candidates for Office and the Board of Directors. Remember the official election ballot will be included in the March Bulletin!

President:

Dan Luoma - Currently vice-president of the Corvallis Chapter, having served as president of that chapter two years. PhD student at Oregon State University, studying forest plant ecology.

Vice-President:

Marjorie Willis - Currently is the Natural Resource Planner for Oregon State Parks. Has taught biology, led natural history tours to Central America, served on the Berry Botanic Garden board, and has done botanical field work for the BLM.

Treasurer:

Marjorie Ettinger - Has served as NPSO Treasurer for the past two years, and graciously agrees to serve a third term. Has computerized much of NPSO bookkeeping business by this point. Busily involved with Central Oregon Community College's Herbarium and plant collection in Central Oregon.

Secretary:

Charlene Holzwarth - Long-standing member of the Portland Chapter where she has served as treasurer and field trip chairman. has also held State Treasurer position and was instrumental in NPSO's first notecards. Recently returned from 2 years in the Peace Corps and has resumed teaching in the Portland public school system.

Board of Directors, Members-at-large:

David Gross- Member of Mid-Columbia Chapter, Forester, Mt. Hood National Forest. Interest in botany in general and either end of the spectrum in particular: weeds and rare plants. Co-recipient of NPSO grant last year for plant surveys in Southeastern Oregon RNAs.

Russ Holmes- Emerald Chapter member. Botanist with the Bureau of Land Management in Roseburg. Responsible for coordinating the District's sensitive plant Research Natural Area programs. NPSO member since 1981.

Mary Mason- Retired librarian. Has served as vice-president of the Portland Chapter for the past two years. Audubon Society member. Board member of Friends of Tryon Creek State Park and guide for park school tours. Member of Oregon Trails Club and Chair of Conservation Committee.

Esther McEvoy- Founded the Corvallis Chapter and has served as its president. Has worked as a botanist for the Burns District in 1979 & 1980. In 1981 worked for the U.S. Forest Service on old growth Douglas Fir plant communities in the Mapleton District. Currently the NPSO Legislative chair, hopeful our bill for rare plant protection will succeed in the 87 Legislative Session.

Richard Smith- Has been a professional land use planner for nearly 20 years. One of the founding members of and the current secretary of the North Coast Chapter. Holds long term interest in botany and plant geography.

Announcing  
Great Basin Naturalist Memoir 9

# A UTAH FLORA



A UTAH FLORA is a comprehensive treatment of the vascular flora that will be particularly useful to students of plant identification. Keys are provided for family, genera, species, and infraspecific taxa. Taxa are described, ecological data is given, and geographic information is provided, including county distribution in Utah for each taxon.

Also included is general geographic information for taxa extending beyond Utah. Where available, the chromosome number for each taxon is listed. Indigenous taxa include some 2,572 species and 355 infraspecific entities, or a total of 2,927. Introduced species number some 580, and the total taxa treated in the flora is 3,507.

Authors: S.L. Welsh, N.D. Atwood, L.C. Higgins, S. Goodrich.  
Prepublication offer: See order form below.

Brigham Young University  
Great Basin Naturalist  
290 M. L. Bean Life Science Museum  
Provo, Utah 84602

Please send upon publication \_\_\_\_\_ copies  
of Great Basin Naturalist Memoir 9,

A UTAH FLORA

@ \$32 prepublication price \$ \_\_\_\_\_  
(anticipated publication date December 1986)

## COLUMBIA RIVER GORGE NATIONAL SCENIC AREA OFFICE OPENS IN HOOD RIVER, OREGON

The USDA-Forest Service will open temporary offices for the Columbia River Gorge National Scenic Area in Hood River on January 18. The new office is located in the Waucoma Center, Suite 301, 902 Wasco Avenue, Hood River, Oregon 97031. The Headquarters will be located in the Waucoma Center from four to six months, until a more permanent location is found. The office will be open from 7:30 am to 4:30 pm, Monday through Friday. The phone number is (503) 386-2333.

Dec. 23, 1986  
To: President Rhoda Love  
From: Budget Committee, Dan Luoma (Ch.), Rhoda Love, Gail Baker

PROPOSED 1987 NPSO BUDGET  
(January 1 - December 31)

Estimated Income:

Balance brought forward	\$4,850.
Membership dues	5,600.
Posters	650.
Interest	300.
Notecards	200.

TOTAL INCOME \$11,600.

Anticipated Expenses:

Bulletin	\$3,000.
Dues refunds @ 35%	1,960.
Conservation Committee	700.
Legislative Committee	600.
Grants	600.
Board and other Committees (incl. mileage)	600.
R/E Committee	400.
Membership Chair	275.
UNRC (for R/E educational packet)	250.
President's expenses	240.
Secretary's expenses	225.
UNRC annual contribution	100.
Annual Meeting - Speaker	50.
Nominating Committee	50.
Treasurer's expenses	45.
Fees	45.
P. O. Box	22.
Balance Brought Forward (savings)	2,438.

TOTAL EXPENSES \$11,600.

Conservation and Legislative budgets include mileage (cumulative over first 200 mi. @ \$0.15/mile.)

State board members attending state board meetings are reimbursed for mileage over 200 miles per meeting (non-cumulative) @ \$0.15/mile.

**NOTE:** Without balance brought forward (savings), INCOME is \$6,750. and EXPENSES are \$9,162. Balance brought forward has fallen from \$5,300 in 1985 to \$2,400 for 1987. To restore savings to \$3,000 in 1988 about \$3,000 will need to be cut from current spending levels.

Editor, Native Plant Society  
and Fellow Inhabitants of This Ravished Globe

Dear Friend,

When I see articles about saving Wilderness Areas for the spotted owl (not to mention all the other reasons) I am reminded of the story of "The Five Blind Men and the Elephant." Each man touched a part of the elephant and that was what the

and the Elephant". Each man touched a part and that was what the elephant looked like to him.

I am an old man, rapidly reaching the hundredth year mark. I spent my younger years in the foothills of the Cascades, going to a one room school of sometimes only seven students. Part of the time I was the only boy in school. At recess and noons, I roamed the virgin forest surrounding the school, untouched by man. I was given a five minute bell to return to class when my free time was over. Very few people have ever seen an Old Growth Forest, such as existed in that area. There were *Calypso bulbosa* by the thousands as well as other members of the Orchid family that you never see now. The flying squirrels sailed from tree to tree. The gray jays sat on your feet, begging for a hand-out. The bluebirds were quite prevalent. After dark, the glow worms lined the trails.

The only major vegetation under those Old Growth trees was a moss carpet, broken only by a few sword ferns now and then. Now it is all gone, never to return for thousands of years or the time it took in the first place. Clear cutting or replanting lets the light enter the stands of timber left, which enables the brush to grow under what is left. Most people haven't lived long enough to see the before and after. The cost in soil, climate and water is not worth raiding any more of our Old Growth Forests. The houses we build from lumber, in fifty or so years are bull-dozed to the ground and burned so we lose what has taken thousands of years to create - not just one or two flowers, a spotted owl or any animal but the safe habitat for everything including mankind. The floods, droughts and climatic changes should make people think before it is too late!

I was asked to escort a young lady from the University of Chicago on a trip to the Valley of the Giants to learn the value of an Old Growth Forest as a habitat for moss, which in turn would conserve our water supply. It was not a true picture of an Old Growth Forest but it was a good example of a small area of stands of Old Growth letting in enough light on all four sides to let brush cover the ground. There was no undercover carpet of moss, just a cover of fallen leaves and weeds. The rape of our wilderness areas is not worth what it costs to repair the effects of droughts, floods and loss of habitat for all forms of life. Let's open our eyes and see the whole elephant.

Sincerely,

Jesse T. Martin  
Willamette Valley Chapter

MALHEUR FIELD STATION'S

## DESERTS IN SPRING

March 22 - May 30, 1987

**HIKE! CAMP! STUDY!** in Death Valley and the Mohave and Sonoran Deserts while flowers bloom and birds and bees do their spring thing.

Be a part of the exciting Spring program of study which tours America's Southwestern deserts for 5-1/2 weeks and Oregon's Great Basin desert for 4-1/2 weeks.

Earn 12 semester (18 quarter) hours of either lower or upper division, transferable college credit through Malheur Field Station and Pacific University.

### ECOLOGY OF NORTH AMERICAN DESERTS

(4 semester credits)  
Ecological field studies of plants, animals and ecosystems in deserts and semiarid lands from southeastern Oregon to Tucson, Arizona. Topics include ecology, geography, geology, climate, history and cultures of past and present times, natural resources and environmental problems. Individual and group projects, lectures and lab work.

### VASCULAR PLANTS OF NORTH AMERICAN DESERTS

(4 semester credits)  
Systematic studies of vascular plants with special emphasis on field identification, natural history and human uses of native plants; familiarization with taxonomic keys; working knowledge of families and orders of desert plants; evolutionary history and relationships of floras.

### VERTEBRATES OF NORTH AMERICAN DESERTS

(3 semester credits)  
Natural history, systematics and behavior of vertebrates with special emphasis on field identification and techniques used in field studies including mist netting and banding of birds, marking of small mammals and lizards, aging and sexing.

### INVERTEBRATES OF NORTH AMERICAN DESERTS

(2/semester credits)  
Natural history, systematics and behavior with special emphasis on field identification and techniques used in field studies.



**INSTRUCTORS:** Linda Ann Vorobik and Staff

**CLASS LIMIT:** 24 students. Enrollment closes March 1st.

**COST:** \$1,950 includes tuition, room, board, travel expenses in the field, and class supplies. A \$200 deposit must accompany the application. Deposit is non-refundable after March 1st.

**APPLICATION:** I wish to attend "Deserts in Spring" and am enclosing a \$200 deposit with a check payable to: Malheur Field Station, P.O. Box 260-E, Princeton, OR 97721. Phone: (503) 493-2629.

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Pacific University obeys the letter and the spirit of all federal equal opportunity guidelines.

\*\*\*\*\*



Drawing by Ramona P. Hammerly, from Northwest Trees, by Stephen F. Arno & Ramona P. Hammerly, The Mountaineers Books, Seattle.



## BOOK REVIEW

Lenz, L. W. 1986. Marcus E. Jones: Western Geologist, Mining Engineer & Botanist. Rancho Santa Anna Botanic Garden. Claremont CA. \$28.00.

M. E. Jones has fascinated me since my graduate student days at the University of Washington, when C. L. Hitchcock would read excerpts from Jones' writings to our advanced systematic botany class. I was both horrified and amused by the vitriolic comments that Jones published about his botanical colleagues in his journal, *Contributions to Western Botany*. Readers of the *Bulletin* will remember Dr. Kenton Chambers' article of several years ago that contained Jones' infamous comment on the death of his archenemy E. L. Greene. "There have been some notable deaths in the botanical world since my last contributions. Greene, the pest of systematic botany, has gone and relieved us of his botanical drivel..." On reading Lee Lenz's fine book I discovered that this was not an obituary written shortly after Greene's death, as I had assumed, but a comment by Jones on their long-standing feud over things botanical written fourteen years later. Jones had a long and unforgiving memory.

Lenz traces Jones' family history back to Thomas Jones, born in 1598, and who was a passenger on the Mayflower and describes the life of the colorful and controversial Marcus E. Jones. We learn of his early years in Iowa, and his education at Iowa College (later Grinnell College) where he eventually received an A.M. degree. He had an early love for plants that was fostered by his parents. His interest in botany flourished at college and continued throughout his life.

He is best known as a tireless collector of western plants, mostly from the intermountain region and Mexico, who took careful ecological observations of the plants he collected. He considered himself to be one of the fathers of ecological botany and took great pleasure in pointing out the lack of this knowledge in his contemporaries. He proposed 737 names in the course of his botanical career, of which these, 202 still stand.

At Iowa College he met his second love, Anna Richardson, whom he married in February 1880 and moved to Salt Lake City where they spent the next thirty-six years and raised three children. Anna died in 1916 after separating from Marcus in about 1910. Marriage to Marcus must have been difficult. He had a "well developed sense of self-esteem and a desire to dominate" from an early age, and a clear picture of how others, especially women, should behave. Anna frequently had responsibility for earning the income to keep the family together by teaching or running a boarding house, while Marcus botanized, or was involved in unsuccessful

ful mining enterprises of one kind or another.

In addition to his botany, Jones was a devout Christian, who refused to work on Sunday. He preached regularly at small towns in Utah as a lay preacher and had little good to say about Mormonism. In spite of his strong religious views, Jones early accepted the tenets of evolution. Perhaps because of this he was a taxonomic "lumper" and did not see the hand of god in every minute variation.

Jones was also an early environmentalist. He spent many hours testifying in court on behalf of farmers and ranchers who brought suits against the mining smelters for damages resulting from smoke and heavy metal pollution. Jones' wit and sharp tongue made for an enlivened court appearance.

Jones eventually moved to Pomona, California, when his herbarium was purchased for Claremont College by Philip Munz. Jones spent the rest of his very active life in southern California. He was on his way home from a collecting trip when he was killed in an automobile accident at the age of eighty-two.

On a recent visit to the California Academy of Science while reading the correspondence of Alice Eastwood I ran across what was perhaps the most poignant statement ever written about Marcus E. Jones. Marcus' daughter, Mabel Jones Broadbuss, wrote Miss Eastwood to tell her about the disposal of M. E. J.'s effects. In this letter she wrote:

He surely had a wonderful mind, and his field work was unique and valuable, but as a man he was not well integrated, perhaps, and like many intellectual geniuses, his emotions were a bit unbalanced, I fear, sadly affecting in judgments in other matters not scientific.

I think I appreciate father's greatness and short comings as clearly as anyone could.

Alice Eastwood, the illustrious, long-time curator of the herbarium at the California Academy of Sciences, was one of the botanists whom Marcus Jones held in high regard.

Lee Lenz has written an interesting, carefully documented biography that has greatly modified my view of Marcus E. Jones, one the West's true botanical characters. Lenz wisely settled a fair and balanced account of the life of Jones, leaving the many Jones stories in "the realm of oral history for the enjoyment of future generations of botanists". Read the book; I think you will enjoy it.

Frank. A. Lang

Siakiyou Chapter



## Old Growth Bibliography

The issue of old growth forests and the Spotted Owl are becoming increasingly important. What follows is a selected bibliography of major research documents regarding these concerns. A more detailed bibliography is available from the National Wildlife Federation (519 SW 3rd, Suite 708, Portland, OR 97204). Copies of any documents are available from NWF for reproduction and mailing cost.

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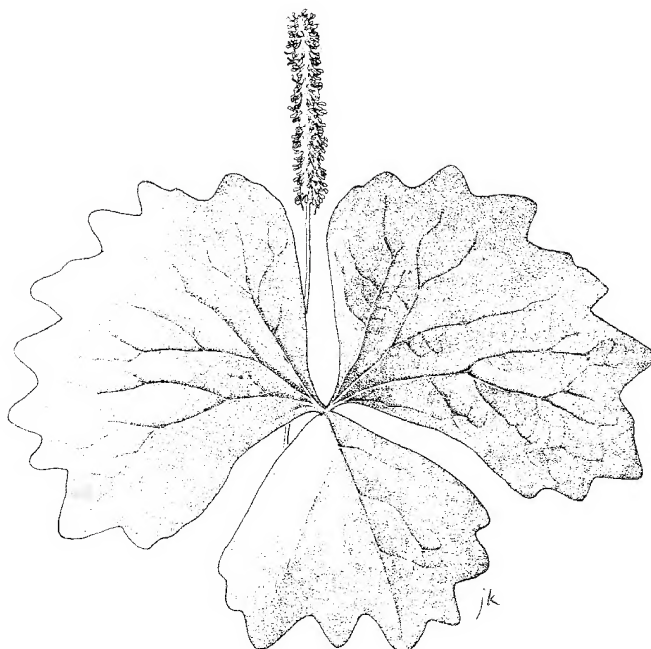
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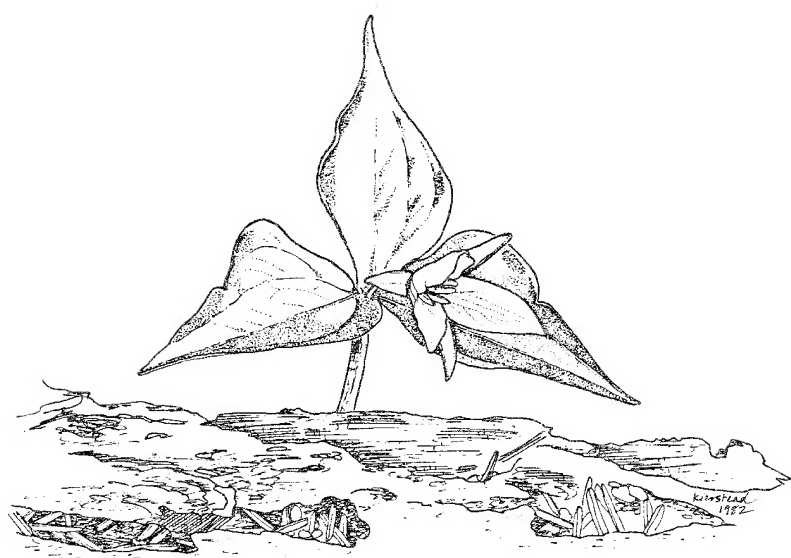
(This bibliography was printed in the Lane County Audubon Society's newsletter, *The Quail*, in December, 1986.)



### THE FOREST

I am the heat of your hearth,  
During cold winter nights;  
I am the friendly shade  
Which you find when you walk  
In the summer sun;  
My fruit quenches your thirst  
On the road;  
I am the table in your house,  
The bed on which you repose,  
The wood of your boat,  
I am the handle of your spade,  
The door of your dwelling,  
The wood of your cradle,  
And your coffin,  
You who pass, hear me well,  
DO ME NO HARM.

(From an engraving in the Garden  
of Marimurtra in Spain)



drawing by Julie Kierstead

### STATE COMMITTEE CHAIRS

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## MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
Membership in the Native Plant Society of Oregon is open to all. Membership applications & changes of address (including old address & zip code) should be sent to the membership chair.

## BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by the 10th of the month & should be sent to the editor. News, articles, photos, drawings, & non-copyrighted materials are welcomed.

## GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed, camera-ready copy is much appreciated. But no submission will be rejected because it is not typed. Please proofread & check facts.

DEADLINE: 10th of each month

FORMAT: Copy should be typed in 4 1/4 inch wide columns, of any length. Author's name & chapter affiliation (or other organization) are typed at the end of the article. There is no standard paragraph treatment; one of these is suggested:

\* for long articles, double space between paragraphs, but do not indent the first word of the paragraph

\* for short articles or short paragraphs, when double spacing looks odd, indent the first word of the paragraph instead

Type your own headline, centered, all caps. In case of special formats, e.g. plant keys, you are free to choose the layout.

CREDITS: For each submission, provide

\* title

\* author--specify whether byline is desired for news items

\* instructions as to whether item is to be used in entirety or excerpted at editor's discretion

\* source & date if item is not original

ILLUSTRATIONS: black & white prints, ink drawings, woodcuts, halftones, et al. We welcome small doodles as well as larger efforts. Please give source & date, if not original.

SCIENTIFIC NAMES should follow Hitchcock & Cronquist's Flora of the Pacific Northwest where possible. Use of both scientific & common names is encouraged. Genus & species names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustrations will not be returned unless it is requested.

The Bulletin is published as a service to NPSO members & the public. Your suggestions & comments are always welcome.

# # #

## NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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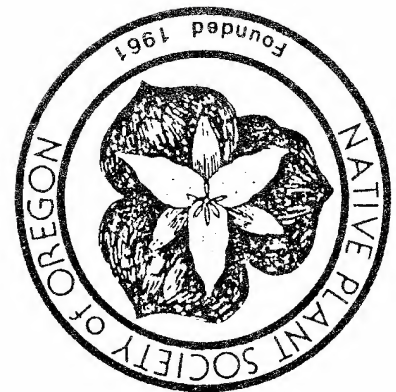
Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_

Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

\*All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible. Please make checks for dues & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form & full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.

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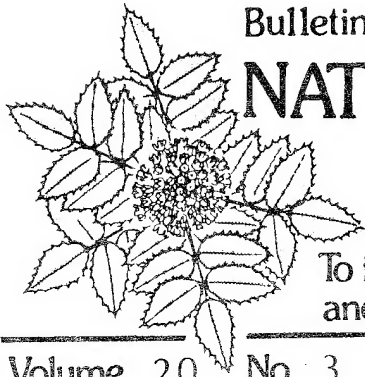
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Bulletin of the

# NATIVE PLANT SOCIETY of OREGON

To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 3

March 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

16 March, Mon.

Meeting, 7:30 pm. Room 130, Morrow Hall, Blue Mountain Community College. Tim Lillibo of the Oregon Natural Resources Council will give a presentation on HELL'S CANYON.

### Corvallis

9 March, Mon.

Meeting, 7:30 pm. Room 205, Withycombe Hall, OSU Campus. Dr. Boone Kaufman, OSU Rangeland Resources Dept., will give a presentation on THE PEOPLE, VEGETATION AND FIRE IN THE VENEZUELAN AMAZON.

### Emerald

9 March, Mon.

Meeting, 8:00 pm. Amazon Community Center, 2700 Hilyard, Eugene. The program will be on ecosystem parameters potentially sensitive to air borne pollutants: a study in Olympic National Park by Gail Baker.

### High Desert

- - - - -

For information, contact Stuart Garrett (382-2681). Field trips start in May on the 2nd.

### Mid Columbia

4 March, Wed.

Meeting, 7:30 pm. Mosier School. ETHNOBOTANY presentation by Krista Thie will be featured.

7 March, Sat.

Field Trip: join the Portland Chapter for our 1st field trip in the Columbia Gorge. Meet at 9:30 am at the Hood River Inn parking lot.

18 March, Wed.

A Portland Botanical Gardens Tour. Sign up at the March 4th meeting or contact Susan Kofahl (478-3576) no later than March 15th.

21 March Sat.

"Meanderings" on the Tom McCall Rowena Nature Conservancy Preserve. More details at the March 4th meeting.

### North Coast

- - - - -

For information, contact Roy Peters (842-9284).

### Portland

7 March, Sat.

Field Trip: First of the year - EAST END OF THE COLUMBIA GORGE. Meet at 8:00 am at the K-Mart, NE 122nd and Sandy Blvd., south end of parking lot or meet the leader at the Hood River Inn at 9:30 am. Leader is Keith Chamberlain (478-3314).

10 March, Tues.

Meeting, 7:00 pm. First United Methodist Church, 1838 SW Jefferson, Portland. George Lewis will present "SCENES FROM GEORGE'S 97,000 SQUARE MILE FLOWER GARDEN".

- 14 March, Sat. Field Trip: MCCORD CREEK - MOSSES. This is a follow-up on the workshop on moss identification. Bring a hand lens. Meet at 9:00 am at the K-Mart, NE 122nd and Sandy Blvd., or at McCord Creek in the Columbia Gorge at 10:00 am. Leader is John Davis, 509-427-5811.
- 21 March, Sat. Field Trip: ROWENA PRESERVE. Meet at 8:00 am at the K-Mart, 122nd and Sandy. Leaders are Sara Barnum and Joyce Beeman (639-3353).
- 28 March, Sat. Field Trip: CATHERINE CREEK. Meet at 8:00 am at K-Mart, 122nd and Sandy. Leader is Louise Godfrey (223-4785).
- 4 April, Sat. Field Trip: MITCHELL POINT. Meet at 8:00 am at the K-Mart, 122nd and Sandy. Leader is Esther Kennedy (287-3091).
- Memorial Day Weekend Field Trip: SOUTHWESTERN OREGON. Details later, leader will be George Lewis.

## Siskiyou

- 12 March, Thurs. The regular meeting has been cancelled. Instead we would like to encourage members to attend the slideshow/lecture program by Galen Rowell, photographer for National Geographic Magazine and author of numerous books. The presentation will feature spectacular slides of his adventures in Tibet, Nepal, China, Alaska and Africa and will include his climb of Mt. Everest. Tickets are \$4/general, \$2/SOSC students. Meeting time is 7:30 pm at the Student Union Arena, SOSC. For more information call 432-7151.

## Willamette Valley

- 16 March, Mon. Meeting, 7:30 pm. First United Methodist Church, corner of SE Church and State Streets, Salem. (Use the Church St. entrance.) The program will be a slideshow WILDFLOWERS OF THE COLUMBIA RIVER GORGE by Nancy Russell of the Friends of the Columbia River Gorge. It will include habitats, blooming times, and information about early botanical explorers.

## Wm. Cusick

- - - - -

For information, contact Rachel Sines (963-0674).

### SIDALCEA NELSONIANA PROPOSED FOR THREATENED STATUS

The Bureau of Land Management and the US Fish and Wildlife Service have decided to proceed with the necessary documentation to support a proposed rule that would list Sidalcea nelsoniana as a threatened species throughout its range. The City of McMinnville's proposed Walker Creek water project is the single greatest threat to the continued survival of the species. The USF & W Service will publish notice of the proposed listing in the Federal Register soon. After that, the agency has 1 year to complete the gathering of data and public input.

There is still a lot to be done to protect the wetlands. The City of McMinnville intends to oppose the listing. Your letters to legislators are very important.

### WASHINGTON STATE NATIVE PLANT SOCIETY

It has been suggested to this editor that NPSO members may be interested in becoming members of our sister organization, the Washington State Native Plant Society. They publish a quarterly informative newsletter. Their membership year is from March to March. If interested, write to Lee Ellis, State Treasurer, WNPS, 5231 NE 184th Street, Seattle, WA 98155. Dues are: Student/Retired \$6, Individual \$10, Family \$12.

### 1987 ANNUAL DESERT CONFERENCE - April 24 to 26

The annual Desert Conference will be held April 24, 25 and 26 at the Malheur Field Station south of Burns, Oregon. The theme for the conference is Desert Wilderness. This is the ninth time conservationists from Oregon, Idaho and Nevada have met for the annual event.

Friday will feature field trips to local Wilderness proposal areas. Saturday participants will hear presentations from natural resource experts and conservation leaders. A blend of natural history, land management and how-to presentations will provide variety. The conference will close by noon Sunday, leaving time for visiting, birding or soaking up more desert sun. Slide shows, banquet, wilderness proposal contest, birding, and a host of other Malheur opportunities are available.

Because of the isolated nature of the Malheur Field Station, all attendees must preregister. Room and board are provided at the Field Station. For further information and registration forms contact:

Desert Conference IX  
PO Box 848  
Bend, OR 97709  
503-388-0089

## Jean Davis Award

Plan to be on hand for the Saturday night banquet, May 9th, if nothing else. Members have personally tested the Multnomah Falls restaurant and are sure we'll have a good dinner. More important will be the brain nourishment provided by Gail Baker's presentation on monitoring sensitive ecosystem processes in the Olympics plus hearing about what is currently happening in the Gorge from a representative from the Columbia Gorge Scenic Area.

If you haven't sent in your registration blank, please do so as soon as possible. We don't have enough confirmations to ensure renting space at Menucha yet, but are proceeding on the assumption that we will.

There will be a few empty places for last minute (up to May 1st) reservations for the banquet but please send your room reservations and/or banquet reservations now to Virginia Diegel, 16415 N.W. Brugger Rd., Portland, Oregon 97229.

Note: Don't forget that the fees listed last month were based on your bringing your own bedding or sleeping bag. If you prefer linen provided, add \$6.00.

\* \* \* \* \*

« « VOTE FOR STATE OFFICERS-BALLOT ENCLOSED » »

\* \* \* \* \*

## BLM WILDLAND STUDY AVAILABLE

On January 23rd the Bureau of Land Management issued their Supplement to the Draft Environmental Impact Statement for BLM Wilderness Study Areas in the state of Oregon. The Study will be available for public comment until April 24th. Public hearings will be held at the times and places indicated below.

The Supplement consists of two volumes which will supplement the four volume Draft EIS issued in April of 1986. BLM has completely rewritten the Statewide document of the Draft. The second document includes six new and a couple of rewritten appendices and changes for the majority of the Wilderness Study Areas in Oregon. The additions bring the combined total of WSAs and acres studied in the DEIS and Supplement to 85 WSAs and 2,648,214 acres.

The new study adds nearly 140,000 acres to the Alvord Desert unit. An appeal has resulted in a new 100,000 acre area - Lookout Butte - on our southeast border. Important botanical values in Leslie Gulch, new Federal land on Steens Mountain, and key wildlife habitat in several areas are major concerns.

The new documents will be most helpful if you have the original Draft EIS. To obtain both the Draft and Supplement write to: Wilderness Studies, BLM, P.O. Box 2965, Portland, OR 97208; Jerry Magee, 503-231-6256.

## WANTED: APPLICANTS FOR JEAN DAVIS MEMORIAL SCHOLARSHIP

We have available two scholarships this year since there were no applicants in 1986. Scholarships are available to students in Oregon Colleges, planning their major study in plant systematics or plant ecology. The award amount is \$1000 to anyone who has or will be completing at least two years of satisfactory college work by July 1st of the year of application. Applications must be in by April 1, and selection will be made May 1. Complete rules and applications are available from Mary Falconer, 1920 Engel Ave. NW, Salem, OR 97304, or from most Financial Aid Departments at Oregon Colleges.

Donations to the scholarship fund are gratefully accepted from the general membership (which is easily done at the time of renewal of your NPSO membership or at any such time as you wish). These can also be mailed to Mary Falconer. If you wish to make a donation in memory or as a gift, please indicate such and we will send out a note to acknowledge receipt to the person or family honored.

The public is urged to provide input on any aspect of the BLM wilderness study.

The BLM has decided to hold hearings on the study at the following places and times:

- |          |   |
|----------|---|
| March 10 | Vale BLM District Office Conference Room.<br>100 Oregon St., Vale 7-9 pm.         |
| March 11 | Harney Co. Courthouse. 450 Buena Vista,<br>Burns, 7-9 pm.                         |
| March 12 | Lakeview BLM District Conference Room.<br>1000 9th St. South, Lakeview 7-9 pm.    |
| March 16 | Catholic Parish Hall. 200 East 1st St.<br>Prineville 7-9 pm.                      |
| March 17 | Hearing Room Auditorium, Second Floor.<br>1120 SW 5th Ave., Portland 2-5, 7-9 pm. |
| March 18 | Concord Room, Red Lion Motor Inn<br>3280 Gateway, Springfield 7-9 pm.             |
| March 19 | Medford BLM District, Oregon Room<br>3040 Biddle Rd., Medford 7-9 pm.             |

Please attend if you can.



President's Letter:

**OUR 1987 LEGISLATIVE EFFORT:  
THE NOTECARD CONNECTION!**

Dear Fellow NPSOers,

I'm sorry I did not write in February, but I was swamped with work. Specifically, I am teaching botany at Lane Community College, working as the Administrative Assistant for the Mt. Pisgah Arboretum, sitting on the state Natural Heritage Advisory Council, acting as your President, working on our Legislative effort, working on my own research on hawthorns, and taking care of our home and family. All big jobs, and with some, your help is needed.

This month I want to discuss two problems that face our Society in 1987. One problem is very large and the other is small, but it may be possible for us to solve both at the same time! The large problem is, of course, to launch an effective program of education of our state legislators in order to PASS OUR ENDANGERED SPECIES BILL THIS YEAR. The small problem is that we have 300 packs of NPSO notecards that need to be sold this spring before I will authorize a new printing with new designs, textures, and colors.

Perhaps most readers are way ahead of me and can already see how the solutions to the problems are related! I have a dream (thank you for a fine quote, MLK) of our distinctive yellow, blue, and green cards STACKING UP ON THE DESKS OF OREGON LEGISLATORS THIS SESSION. Can't you see them there, piles and piles of them -- so recognizable -- so effective? Each one with a personal message about some rare plant that needs to be saved.

Can't you see the Governor and the Legislators beginning to recognize them? Their aides and secretaries bringing in more each day! They think to themselves: "There's a group out there called the Native Plant Society of Oregon that really cares about the rare plants of our state." We are about 600 strong, not a huge society, but if everyone writes 5 cards this spring, that's 3

thousand cards on desks in Salem!

Anyhow, I don't need to belabor the point. With only 300 packs to go, and with our low, low price of only \$2.50 a pack, we can easily sell the remaining packs in the next month or so if ONLY HALF OUR MEMBERS purchase a pack! And probably many of you, like me, intend to buy 2 or 3 packs for this legislative session.

Chapter Presidents (or Treasurers), please take stock today. Do you have enough cards to sell in the near future? Please call George Lewis at 292-0415 and ORDER MORE CARDS TODAY if you are running low. Members, please ask your chapter officers for cards. Call them by phone if you don't attend meetings.

Chapter Presidents, again, please do what Charlene Holzwarth tells me the Sierra Club chapters do: Distribute a card to each member at the beginning of each chapter meeting. Write the names and addresses of local legislators on the blackboard; suggest items that could be mentioned such as meadowfoam or new medicines; pass out some stamps; and give a few minutes for the letters to be written. They need not be long, but they should be "from the heart."

Being your president during this legislative year is exciting, but it is also a lot of work. Worrying about non sales of notecards is one responsibility that could be eliminated very quickly if all chapters and members would get the patriotic spirit and start a FLOOD OF NPSO NOTECARDS HEADING TOWARD SALEM THIS SPRING!

Bless you all for your help and Flowers Forever!

Rhoda Love

**WE NEED YOUR HELP  
AGAIN!  
2,000 SCHOOL CHILDREN  
COMING TO THE  
MT. PISGAH ARBORETUM  
IN MAY!  
6TH YEAR OF OUR FREE  
OUTDOOR PROGRAM  
TRAIL GUIDES NEEDED  
EACH WEEKDAY MORNING  
IN MAY  
FREE TRAINING SESSIONS:  
MARCH 10 AND 11  
PLEASE CALL: 747-3817**

**W E L C O M E   N E W   M E M B E R S**

CORVALLIS  
Thomas Kaye  
Roger & Carol Quick  
Kristen Terry

BLUE MOUNTAIN  
Chris Matherly

EMERALD  
Alan Dickman

PORTLAND  
Jean Dodier  
Eric Grimm  
William Peterson  
Andrew Robinson

HIGH DESERT  
Lucile Houseley  
David Lichter  
Edward Mierjeski

SISKIYOU  
Kaye Downey  
Barbara Erter  
Don Sellers

MID COLUMBIA  
Jeanne Hillis  
Mrs. B.J. Hoffman

WILLAMETTE VALLEY  
Mark Boyll

## Legislative Notes

## ENDANGERED SPECIES AND HABITAT CONSERVAION

Our Endangered Species Bill is beginning its journey through the legislative process now. Our bill will be introduced as a committee bill by Bill Bradbury on February 16, in the Agriculture and Natural Resources Committee in the Senate. On February 17th it will be assigned a number. Once the bill is introduced it will be 4 to 6 weeks until our hearings before the Agriculture and Natural Resources Committee. That places our hearings at the end of March or beginning of April. These hearings are very vital to the success of our bill. We welcome any suggestions for expert testimony, especially from other individuals outside our conservation groups. Contact me if you know of any good speakers for our cause.

One major change was made in our bill before the final draft. We decided to delete all appropriations in our bill. The reason behind this is that with the appropriations attached to the bill, certain death was almost guaranteed in referral to Ways and Means Committee. So, we are planning on getting the statutes first and then going back for appropriations at a later session.

A number of our posters have been handed out to friendly legislators. The posters have been very favorably received by all recipients. Start to contact your representatives, keep them informed and educated on the importance of our bill! Remember, we are responsible for what will be here in Oregon for future generations to benefit from and to enjoy. Contact your representatives now.

In the January issue of this Bulletin our State President gave all our members background information about Rare Plant Legislation. These are all important points that we should emphasize to our political representatives. I would also like to offer some references for biological facts and figures that support species and habitat conservation. These articles discuss some of the fundamental biological reasons for promoting conservation of the natural diversity and abundance of species. They are excellent sources from which to cull information to include in letters or just for your own edification.

Ehrlich, P. and H. Mooney. 1983. Extinction, Substitution and Ecosystem Services. *BioScience* 33:248-254.

Schreiner, K. and C. Ruhr. 1974. Progress in saving endangered species. *Trans. 39th N. Amer. Wildlife and Nat. Resor. Conference. Wildlife Mgt. Inst.*

Vitousek, P., P. Ehrlich, A. Ehrlich and P. Matson. 1986. Human appropriation of the products of photosynthesis. *BioScience* 36:368-373.

Issues of Journals devoted to species extinction include:

Wild Oregon: Journal of the Oregon Natural Resource Council. Fall 1986

The Nature Conservancy News. 1983. Vol. 33.

Myers, N. By saving wild species, we may be saving ourselves.

Gail A. Baker  
Emerald Chapter  
January 1987

### SIUSLAW COMMENT PERIOD EXTENDED TO MARCH 20

The Siuslaw National Forest draft forest plan was released November 15 and the comment period has now been extended past February 15 to March 15 thanks to Liz Frenkel of the Sierra Club and the Governor. A few members of the Corvallis Chapter of the NPSO are working on a letter about the plan. Angie Evenden, Dan Luoma and I have begun to work on a response to the proposed alternatives. Please contact any of us if you wish to respond.

Esther Gruber McEvoy  
State Legislative Chair

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*****
*
* OREGON ENDANGERED SPECIES BILL HAS A NUMBER
*
* The Bill's number is 533. NPSO members who would
* like a copy of the Bill should request it through
* their legislator (first copies are free). When
* you write, please urge your legislator to support
* our Bill, Senate Bill 533.
*
*****
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The NPSO board met in Corvallis on January tenth. The meeting was presided over by President Rhoda Love. She stressed the importance of chapter representatives attending these meetings so that information could be brought to members quickly. Chapters represented at the meeting were, Corvallis, Emerald, Mid Columbia, Portland, Siskiyou, Willamette and Wm Cusick.

Highlights of the chapter reports are: Corvallis has focused their interest on old growth forests. Emerald provided registration fees for 3 members to attend 3 different symposiums and report back. They are watching a situation where a population of Lomatium bradshawii may be encroached upon and are participating in the development of an educational program for the new Big River Old Growth Preserve.

Both Mid Columbia and Portland will be participating in the program to rid the McCall Rowena Preserve of Knapweed and to plant Penstemon barrettiae on the grounds of Bonneville Dam. Mid Columbia, Portland and Willamette are planning wildflower shows. The Leach Garden has graciously provided Portland Chapter with library space.

Siskiyou Chapter is heading south to the California desert for its first field trip. They brought the good news that the BLM had given protection to Eight Dollar Mountain and that the site at Emigrant Lake where the Southern Oregon Buttercup grows will probably not be developed commercially due to protests.

Wm. Cusick Chapter is working diligently towards further protection for Hells Canyon and have been checking on endemic species that grow in the canyon.

Mary Falconer, membership chairperson, reported that membership has been lagging, however members have been generous in contributing to the R/E and scholarship fund. The OSU and Uof O's request for a complete set of our NPSO Bulletins has not been met.

Our Editor is again calling for more material. It was suggested that field trip reports be encouraged for some members look forward to reading them.

Conservation was reported upon by Julie Kierstead. A new director is reorganizing the state BLM office and we need to remind him we would like more botanists hired. The Berry Garden has produced seedlings of Stephanomeria malheurensis that will be used to replant their natural habitat in April. The original population was destroyed by fire.

Julie has asked for a person knowledgeable in forest matters to help the Conservation Committee with forest conservation issues.

Legislative Chairperson, Esther McEvoy announced that the Endangered Species Act that she and her committee have worked for so long and hard is now ready for a number

and introduction into the legislature. Julie Kierstead has ready two slide shows that will be used to promote the act. More about what the membership can do to help toward getting this legislation passed will be in the Bulletin.

Jean Siddall reviewed last year's work toward protection of R/E species and stressed that the chapters need to complete their search for plants and send in their reports. Checking of sites is an important role for NPSO to play in the protection of R/E species. Blooming time of these plants was published in the three spring issues of the 1986 Bulletin.

While Barbara Fox was unable to attend, the meeting she reported that the two NPSO grants in 1986 did a lot of good. The program will continue.

Jim Brown and Rick George, members of the Wm. Cusick Chapter, reported on conservation efforts related to Hell's Canyon. He states that this area is a botanical treasure. The chapter has identified 28 endemic species and there is evidence that the Grizzly Bear is not extinct on the Idaho side. Damage to watershed and habitat are considerable since logging began in 1975. Timber interests and conservation groups are polarized, with loggers wanting to save their jobs and conservationists wanting to protect the canyon. The Grande Ronde Resource Council is going to sponsor a symposium that will involve both interests and try to resolve the situation.

The nominating committee reported a complete slate of officers for the coming election.

Carolyn Wright has more site work to do before she can write a complete report on Mickey Basin.

The Board decided it was not feasible to have a booth at the State Fair in 1987.

Annual meeting plans are underway and the Bulletin will have complete information.

Frank Lang has developed guidelines for advertising and sale of membership list. The Bulletin will publish this.

A chairperson is needed to take the responsibility of answering correspondence concerning the growing of native plants. A volunteer would be welcome.

The budget committee made a big effort to trim the budget so that the depleted savings (oursafety net) could be built up again.

The Cresco Nursery in Holland has asked NPSO for help in securing salvaged Darlingtonia californica for propagation. He has secured the proper collection permits and is willing to fly to the area to collect salvaged plants. The Board agreed to help him with the collection as long as the collections were restricted to areas where destruction could not be avoided.

Florence Ebeling, Sec.



I. CHAPTER GUIDELINES

- 1) Know your rare, threatened and endangered species. Know your fragile environments and unique biotic communities.
- 2) Be alert to threats to native plants and their habitats. Appoint watchdog committees to keep aware of these threats and inform the chapter.
- 3) Take action to protect native plants. Work with all groups and the general public to protect native plants and their habitats. Be prepared to salvage plants where they are threatened by outright destruction. Help eradicate particularly aggressive and successful exotic plants that threaten native plants. Take responsible outings.
- 4) Educate your members and the public about native plants, and encourage them to use good judgment in the study, enjoyment, and use of native plants.
- 5) Encourage your members to grow native plants only from seeds or cuttings.

II. OUT THERE AMONG THE PLANTS

- 1) Outings for whatever purpose must never endanger a plant population. Encourage nondestructive modes of learning and enjoyment: photography, artwork, scientific description, aesthetic prose and poetry, and so on.
- 2) On group outings (field trips, conservation activities, class field studies), group leaders must take responsibility for protecting native plants from the activities of the group. All participants should understand the goal of plant protection, the purpose of the outing, and the means by which they can make the least impact on plants and the natural habitat.
- 3) Know where endangered species are growing and plan outings with this knowledge in mind.
- 4) Respect private and public property. Do not trespass. Know the regulations for use of the land and natural resources--public or private--your group is entering.
- 5) Respect the habitat as a whole. Avoid disturbing wildlife, such as nesting birds and nesting hornets.
- 6) Be sensitive to the human foot as a threat to plants. Visits to fragile environments should be carefully planned. Students should be given adequate direction by their instructor, and excessive collecting should be discouraged. Better one person enter a fragile area to identify a plant than the whole group.
- 7) Collecting should be considered only when identification cannot be made in the field or when it will contribute significantly

to educational or scientific objectives. Collecting for whatever purpose should be done as inconspicuously as possible. Casual observers may not understand the reasons for collecting and may feel license to do likewise.

- 8) Collecting must never endanger a plant population. Collect seeds or cuttings in preference to whole plants. Do not collect underground plant parts except for identification purposes. Avoid excessive collecting: this calls for exercise of good judgment by the collector. Consider the use of rules of thumb for judging whether to pick or not to pick. Encourage group study of one specimen. Consider using weeds, garden species, or lab-grown specimens for educational purposes.

III. USING NATIVE PLANTS

- 1) Use of native plants--in wildflower shows, plant sales, and horticulture--must never threaten their populations.
- 2) Native plant species for sale should be obtained by salvage, seeds, or cuttings--in that order of priority--and whole plants should never be dug up, except for salvage. Seeds should not be sold. Growers must exercise discretion in collecting seeds and cuttings to avoid endangering plant populations.
- 3) Native plants for sale should state on the label how obtained or grown. Chapters should consider certifying commercial growers who follow good ethical practice, and should urge the public not to buy unless plants were obtained or grown according to these guidelines.
- 4) The sale and use of particularly aggressive and successful exotic plant species, such as gorse, broom, and pampas grass, should be discouraged.
- 5) Salvage of native plants should be encouraged when their destruction is certain: at quarries, mines, dams, building construction sites, road construction sites. Salvage is not necessarily called for, however, on logging sites, some recreational areas, and rangeland. Salvaged plants should be kept potted long enough before sale to ensure that they will survive the shock of transplant.
- 6) Wildflower shows should make maximum use of their educational potential. Inform the public of the goals of NPSO: explain the guidelines your chapter follows in studying, enjoying, and using native plants--including guidelines followed in collecting for the show; consider using all other educational options (slides, artwork, publications, herbarium collections, news media, etc.); and continue the educational "life" of display materials after the show by donating them to schools, libraries, or other constructive uses.

The first flowers we saw in 1986 were on February 1. We had taken a walk that Saturday afternoon across the wheat and cattle ranch we live on 30 miles due east of Mt. Hood. We're at an elevation of 2800 feet and that day, although sunny, the air was brisk. We had crossed over to our neighbor's place to the west and were walking through the biscuit-scabland that separates the grain fields from each other when we saw it--our first flower of the year. It was a small white-flowered umbel, either a Lomatium or an Orogenia. We didn't know what it was because they are difficult to identify without the fruit. We were on a south facing slope with a few patches of snow around, and saw that a few Sisyrinchiums were also coming up. Just across the draw on the shadier north slopes and in the bottom there was still a good accumulation of snow, the remnants of a very snowy and cold November and December. We made some comment about how early it was to be seeing flowers, and then continued on.

The last flowers we saw in 1986 were not in September or October as we might have thought if we had even been thinking "these are the last flowers we'll be seeing this year", but, they were in December. They weren't holdovers from the fall either, they were new blooms. New green leaves, buds, and flowers.

The first of our last flowers was the same little white umbel. It was December 1 and we had walked up on the ridge behind the house to look down into the Deschutes River canyon and beyond. Coming back along the top of the ridge we saw it in a bare spot in the patchy blanket of November's snow. This time we remarked about how some plants can go through their yearly cycles in extreme weather conditions and figured this plant would stay green under the snow that we expected to come--it's alternative to summer heat and drought.

On December 12, we were at The Nature Conservancy Lawrence Memorial Grassland Preserve in southern Wasco County. The elevation there is about 3300 feet. It was another sunny but brisk day. We walked around the preserve a bit and saw signs of several plants greening up: Lithophragma, Lomatium minus, and several grasses. Getting a head start on spring we thought.

On our way home we stopped a couple of miles down the road and took a quick walk through a juniper woodland. Coming back up an old, stony road we suddenly realised that the scattering of white specks at our feet were not tiny hailstones but the buds of Phlox hoodii. And not only were there buds, but flowers as well. So here was another early plant, in bloom at an unexpected time.

And then finally, on Christmas Day, on another one of our walks on the ridge behind the house, we came across a patch of Phlox in bloom. It was a gray, overcast day, and the early snows still lingered, but not much. By this time we were actually looking for something in bloom, so, while it was still a surprise to see flowers, it wasn't as big a surprise as it could have been. Besides, it was Christmas, and everyone knows that Christmas is full of surprises.

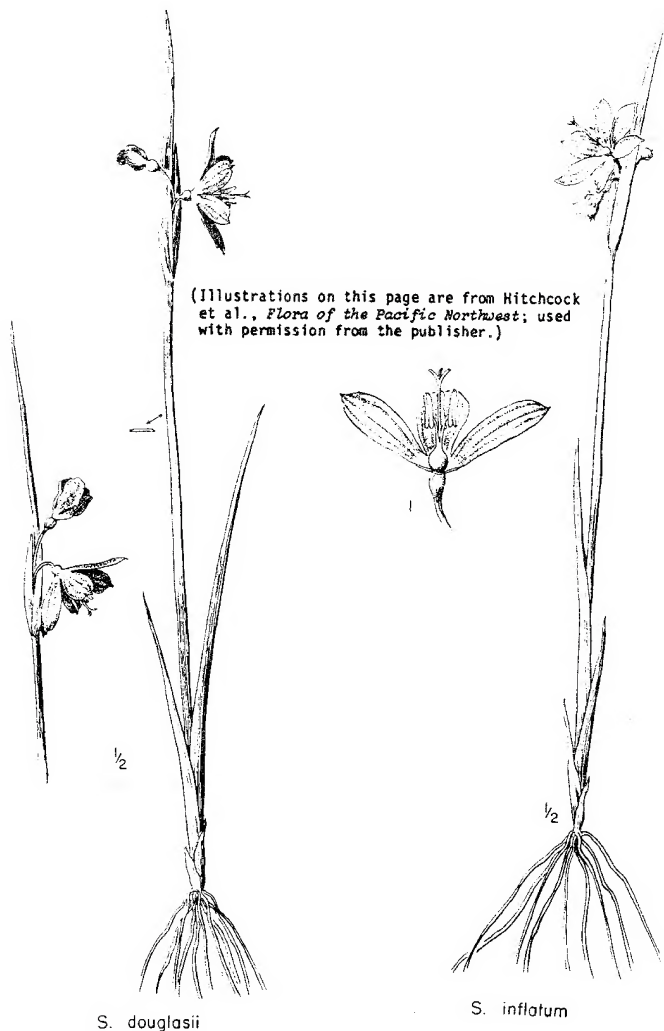
Well, we've already seen our first flowers of 1987. It was on about the third or fourth of January up on the ridge behind the house. Here and there were little green leaves and white flowers of the mystery umbel. We had looked for the one we were so surprised by back on December 1, but it was covered by snow. The top of the ridge was warmer and we left our tracks in the mud in a few places--no snow here. There weren't a lot of plants in bloom, but enough to say "These are the first of the year". We noticed the deer had found them, too, and had nibbled on the larger leaves.

Now, at the end of January, it is snowing outside. We still haven't had a big snowstorm this winter, it's been pretty dry. But as we watch it snow, we remember what waits underneath this white blanket. We've also learned something this winter. We've always known some plants were early bloomers, but now we know just how early that can be.

So, just because the weather turns cold, and the leaves drop off the trees, or it snows, or whatever happens around where you live to herald the coming of winter, keep your eyes open for those earliest of bloomers--what will they be? If we track that little white umbel until it fruits, then we'll really know what our first flowers of 1986 (and 1987) were and we'll let you know, too.

David C. Gross

Mid Columbia Chapter





## HELLS CANYON: TREE FARM OR NATIONAL TREASURE

The deepest gorge on Earth, Hells Canyon, lies along the extreme northeast corner of Oregon, where the Snake River cuts between Idaho and Oregon. The rugged basalt side canyons lead down into the basement rocks at the bottom of Hells Canyon, exposing the geologic record for nearly 225 million years. The Hells Canyon region was the first land in Oregon to rise above the Pacific Ocean as the continent extended westward to its present-day position.

Today the area is populated with herds of elk, deer, bighorn sheep. Grizzly bears have been sighted in the remote regions of Hells Canyon, and twenty-seven species of native plants are endemic to the canyon. However, to date we have conducted only cursory studies of the plant and animal life in the canyon, and much more needs to be done.

Time may not be on our side. Since legislation was passed in 1975 to designate the region as a National Recreation Area, logging has accelerated, roadbuilding has decimated much of the habitat, and the pressures for resource exploitation have increased.

On August 22, 1986, Senators Hatfield and Packwood conducted a field hearing on a proposal by Senator Packwood to add additional wilderness acreage to the NRA. Timber interests organized under the banner of SOS (Save Our Snake) and converged on the hearings with more than 100 log trucks parading through the main street of La Grande. Testimony was inconclusive on the reliance of local sawmills on Hells Canyon timber. But both Senators did decide that local residents needed to achieve a consensus on the issue before it would be considered again.

Local conservationists attempted to establish a dialogue with the timber interests but were quickly disillusioned when loggers leaked to the newspapers their proposal to build a road through the Eagle Cap Wilderness Area to Hells Canyon, so that motorists "might use it".

Realizing the need for more rational suggestions, a local conservation organization, The Grande Ronde Resources Council (GRRRC), participated in Governor Goldschmidt's Team Oregon process of defining regional economic development priorities and successfully promoted the Hells Canyon issue to the top of the long term priority list. Locally elected officials, realizing the need to resolve the issue, are presently willing to consider management options that will contribute to the regional economy and protect the unique character of Hells Canyon.

At the last board meeting of the NPSO, I presented the GRRRC idea of a spring symposium on the future of Hells Canyon to be held in La Grande. Management options ranging from National Park designation to National Preserve status or continued National Recreation management alternatives will be presented. The purpose is to educate all Oregonians on the current status of management and the options available for saving the deepest gorge on earth.

At the suggestion of the NPSO board I have included the address of the Grande Ronde Resource Council if you would like additional information and/or wish to contribute money to help the local conservationists underwrite the cost of the symposium.

We hope to invite National Park Service representatives to present their ideas on managing the area, and hopefully Cecil Andrus, current Governor of Idaho and former Secretary of the Interior and father of the National Preserve movement, will share his ideas on managing the area.

We look forward to lots of support from NPSO members all over Oregon and invite everyone to attend the symposium. The date is to be announced by Feb. 1st.

Jim Brown  
Executive Director  
Grande Ronde Resource Council  
P.O.Box 2968  
La Grande, OR 97850



### ALERT EMERALD CHAPTER MEMBERS Officers Sought

The Eugene Chapter of NPSO has been operating without a Vice-President for over 2 years and our Treasurer's term of office has ended. A maximum term of 2 consecutive years is stipulated in the By-Laws.

In order to keep our Chapter going at its current pace we need to fill those 2 positions as soon as possible. Both jobs are important to Chapter and State activities and require just a moderate amount of time and effort.

The monthly meetings in Eugene attract 20 to 50 people and officers derive a real sense of accomplishment in serving the environmentally interested community in the area.

**WE NEED YOUR INVOLVEMENT TO CONTINUE.  
PLEASE JUMP IN!!**

Many, many thanks to our out-going Treasurer, Evelyn Everett, for handling the position with efficiency and responsibility.

Hopefully I have inspired all our Emerald Chapter members. Give me a call right now.

Best regards,  
Gail A. Baker 344-0312  
President, Emerald Chapter





## Get IN TOUCH WITH NATURE at the Mt. Pisgah Arboretum

Sign up now for the first two in a monthly series of natural science workshops at the Arboretum. Each all day session will cover a different topic, from Animal Signs to Wildflower Identification. Aimed at adults with an interest in natural science, the program teaches through readings and discussion, field study, and, where appropriate, preparation of specimens for collection.

Students in the Animal Sign session, for instance, will study a deer trail and riverbank tracks and learn to make plaster casts from tracks in the field.

Workshops will be held on the second Saturday of each month, from 9am to 2pm with a break for lunch. Enrollment will be limited to 15 participants per session. For more information, call Dave Stone at 683-6127.



### IN TOUCH WITH NATURE

#### - WORKSHOP REGISTRATION -

Please register me for the following workshop(s):

Topic	Date	Fee
<input type="checkbox"/> Animal Signs	March 14, 1987	\$ 5.00
<input type="checkbox"/> Nature Photography	April 11, 1987	5.00

(\$1 per workshop discount for Arboretum members) Total enclosed \_\_\_\_\_

Make check payable to: Friends of the Mt. Pisgah Arboretum  
Send to: Workshop 85999 Lorane Hwy Eugene, OR 97405

Name \_\_\_\_\_ Phone: day \_\_\_\_\_  
Address \_\_\_\_\_ eve \_\_\_\_\_



Wildflowers  
of  
Oregon

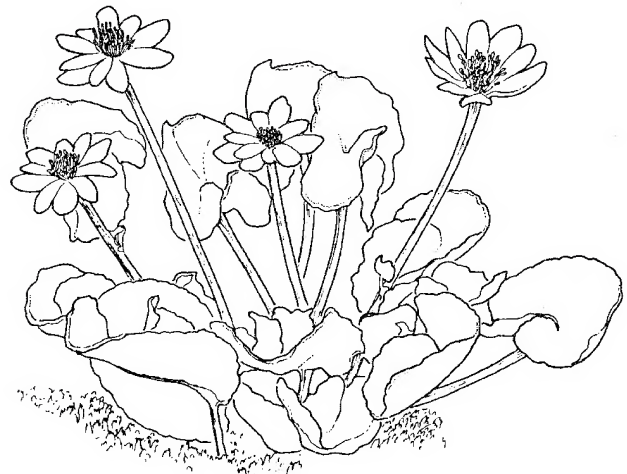


The following letter was received from the Office of the Burns District Manager of the BLM.

"This Land is Your Land" . . . BLM uses this philosophy as the basis of its "Take Pride in America" program. We know NPSO is proud of the public lands and are pleased that you take the opportunity to visit them. Your botanical observations and notations are of interest to the area land manager.

BLM welcomes interaction with NPSO members. NPSO'ers probably spend a fair amount of time each year botanizing on BLM land, and may visit places that BLM botanists haven't concentrated on. We would appreciate receiving information you collect such as general species lists, habitat descriptions of particular areas you visit, and sensitive species information. Information on sensitive plant habitats and populations and maps of their locations are especially useful for land management of federal or state sensitive species occurring on public land.

Sensitive species lists for Eastern Oregon may be obtained from the botany coordinators of the BLM District Offices in Burns, Lakeview, Prineville and Vale or from Cheryl McGaffrey, Zone Botanist, located at the Burns District Office (74 S. Alvord St., Burns, OR 97720). Likewise, information on plants occurring on the land of these districts may be provided to the district botany coordinator or to the Zone Botanist who will provide the data to the respective district.



#### STATE COMMITTEE CHAIRS

NPSO Wildflower Poster & Pins . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR, 97040; 478-3576

Notecards . . . . . George Lewis  
8230 SW Cashmur Lane, Portland, OR, 97225; 292-0415

T-Shirts . . . . . Evelyn Everett  
4135 Alder St., Eugene, OR, 97405; 345-1746

# STATE OFFICERS

President . . . . . Rhoda Love  
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Vice President . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR, 97040; 478-3576  
Secretary . . . . . Florence Ebeling  
7725 SW 82nd Ave., Portland, OR, 97223; 244-4122  
Treasurer . . . . . Marjorie Ettinger  
63820 Quail Haven, Bend, OR, 97701; 382-2255  
Directors . . . . . Don Eastman, Julie Kierstead, Dan Luoma  
Carolyn Wright, Don Barr, Barbara Fox  
R/E Chair . . . . . Jean Siddall  
535 Atwater Rd., Lake Oswego, OR, 97034; 636-4633  
Conservation Chair . . . . . Julie Kierstead  
11505 SW Summerville, Portland, OR, 97219; 636-4112  
Legislative Chair . . . . . Esther McEvoy  
3290 SW Willamette, Corvallis, OR, 97333; 754-0893  
Desert Wilderness Coordinator . . . . . Julie Kierstead  
11505 SW Summerville, Portland, OR, 97219; 636-4112

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PO Box 1838, Corvallis, OR, 97339; 757-2806  
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2424 Harris St., Eugene, OR, 97405;  
High Desert (Bend area) . . . . . Joyce Bork  
1600 NW Quincy, Bend, OR, 97701; 388-4394  
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Box 151, Mosier, OR, 97040; 478-3314  
North Coast . . . . . Roy Peters  
842-9284  
Portland . . . . . Herb Armentrout  
20060 SE Hwy 224, Clackamas, OR, 97015; 658-2751  
Siskiyou (SW Oregon) . . . . . Ron Nitos  
Biology Dept SOSC, Ashland, OR, 97520; 482-6341  
Willamette Valley (Salem area) . . . . . Susan Kephart  
Biology/Willamette Univ, Salem, OR, 97301; 370-6481/371-7161  
Wm. Cusick (LaGrande area) . . . . . Rachel Sines  
504 C Ave., LaGrande, OR, 97850; 963-0674

## MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
Membership in the Native Plant Society of Oregon is open  
to all. Membership applications & changes of address  
(including old address & zip code) should be sent to the  
membership chair.

## BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
the 10th of the month & should be sent to the editor.  
News, articles, photos, drawings, & non-copyrighted  
materials are welcomed.

## GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed,  
camera-ready copy is much appreciated. But  
no submission will be rejected because it is  
not typed. Please proofread & check facts.  
DEADLINE: 10th of each month

FORMAT: Copy should be typed in 4 1/4 inch wide  
columns, of any length. Author's name & chap-  
ter affiliation (or other organization) are  
typed at the end of the article. There is no  
standard paragraph treatment; one of these  
is suggested:

\* for long articles, double space between  
paragraphs, but do not indent the first  
word of the paragraph

\* for short articles or short paragraphs,  
when double spacing looks odd, indent  
the first word of the paragraph instead

Type your own headline, centered, all caps.  
In case of special formats, e.g. plant keys,  
you are free to choose the layout.

CREDITS: For each submission, provide

\* title

\* author--specify whether byline is desired  
for news items

\* instructions as to whether item is to be  
used in entirety or excerpted at editor's  
discretion

\* source & date if item is not original

ILLUSTRATIONS: black & white prints, ink  
drawings, woodcuts, halftones, et al. We  
welcome small doodles as well as larger  
efforts. Please give source & date, if not  
original.

SCIENTIFIC NAMES should follow Hitchcock &  
Cronquist's Flora of the Pacific Northwest  
where possible. Use of both scientific &  
common names is encouraged. Genus & species  
names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustra-  
tions will not be returned unless it is  
requested.

The Bulletin is published as a service to  
NPSO members & the public. Your suggestions  
& comments are always welcome.

# # #

## NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

CHAPTER (if known) \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

IS THIS A CHANGE OF ADDRESS? If so please  
write your OLD ADDRESS: \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\* DUES include monthly news bulletin. Full membership runs from January through December. Quarter member-  
ship runs from September through December.

( ) NEW

( ) QUARTER MEMBERSHIP (\$2.50)

( ) RENEWAL

( ) Student . . . . . \$ 7.50

( ) Sustaining . . . . . \$ 25.00

( ) Regular . . . . . 10.00

( ) Patron . . . . . 100.00

( ) Family membership . . . . . 15.00

( ) Life member . . . . . 500.00

\* CONTRIBUTIONS:

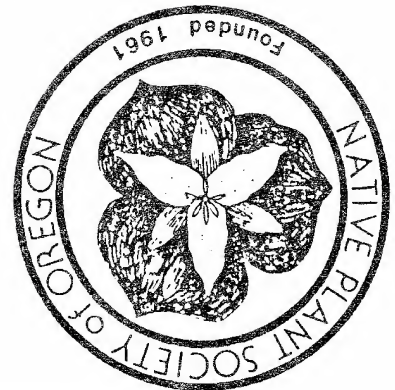
Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_

Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

\*All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible.  
Please make checks for dues & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form  
& full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.

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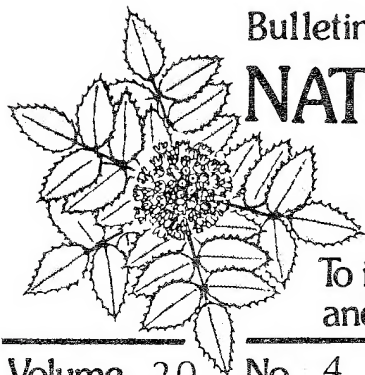


Native Plant Society of Oregon  
1960 NW Lovejoy #2  
Portland, OR 97209

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To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 4

April 1987

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1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

- 11 Apr., Sat. Field Trip to UPPER MCKAY CREEK. Meet at 8:30 am at the EMCC Greenhouse.
- 2 May, Sat. Field Trip to UMATILLA FORKS. Meet at EMCC Greenhouse at 8:30 am (bring a lunch).  
Leader: Bruce Barnes (276-5547).
- 24 May, Sun. Field Trip to MORGAN LAKE, near LaGrande. Meet at 8:00 am at EMCC Greenhouse or  
at 9:15 am at the Safeway parking lot in LaGrande (bring a lunch). Leader:  
Ruth Rouse.
- 30 May, Sat. Field Trip to LOGAN VALLEY near Prairie City. Meet at 7:00am at EMCC Greenhouse or  
at 10:00am at Clyde Holliday Wayside between Mt. Vernon and John Day (bring a  
lunch). Leader: Karl Urban.

### Corvallis

- 13 Apr., Mon. Meeting, 7:30pm. Room 205, Withycombe Hall, OSU Campus. Dr. Lee Eddleman, an  
ecologist with the OSU Rangeland Resources Dept. will give a presentation on  
A SCENARIO FOR WESTERN JUNIPER EXPLOSION.

### Emerald

- 13 Apr., Mon. Meeting, 8:00pm. Amazon Community Center, 2700 Hilyard, Eugene. The program  
will be on the FLORA OF THE COLORADO ROCKIES and a look at the DENVER BOTANICAL  
GARDENS by Ken and Robin Lodewick.
- 11 Apr., Sat.  
and  
6 June, Sat. Two trips to the Big River Old Growth Preserve, south of Cottage Grove, are planned  
for the purpose of compiling a species list for the area. All levels of expertise  
are welcome. Botany students and other beginners: this is an excellent chance  
to hone your plant identification skills. Meet at 10:00am at the Lane Community  
College south parking lot, adjacent to the Science Building or at the intersection  
of Big River Rd. and Stennett Butte Rd. near the site at 10:45am. Directions to  
Big River are printed in this issue of the Bulletin.

### High Desert

All field trips leave from the parking lot behind MacDonald's Restaurant, 2048  
NE 3rd, Bend, at 9:00am. Carpools are encouraged. Bring a backpack lunch.  
Non-members are welcome. For more information call Stu Garrett (382-2681).

- 2 May, Sat. Field Trip to STEELHEAD FALLS. A moderate 3-4 mile hike in an area being considered  
for Wilderness. Early spring wildflowers, eagle-watching and spectacular scenery.  
Leader: Ken Robinson (382-1452).
- 6 June, Sat. Field Trip to POWELL BUTTE. A moderate 4 mile hike with great views in BLM admin-  
istered area. Leader: Stu Garrett (382-2681).

## Mid Columbia

1 Apr., Wed.

Meeting, 7:30pm., Mosier School. This will be an organizational meeting to plan for the annual wildflower show.

12 Apr., Sun.

12th ANNUAL WILDFLOWER SHOW. 10am to 4pm at Mosier School. The annual Firemen's Smorgasbord Dinner is also happening at the Mosier Grange Hall. All NPSO members and general public welcome!

## North Coast

- - - - -

For information, contact Roy Peters (842-9284).

## Portland

2 Apr., Sat.

Field Trip to MITCHELL POINT. Leave at 8:00am from the K-Mart on NE 122nd and Sandy Blvd., south end of parking lot. Fine flowers on a Columbia Gorge landmark. Leader: Esther Kennedy (287-3091).

11 Apr., Sat.

Field Trip to MCCORD CREEK AND VICINITY, favorite site and season for spring in the ORG. Leave at 8:00am from the K-Mart, NE 122nd and Sandy. Leader: Carroll Dubar (234-4135).

14 Apr., Tues.

Meeting, 7:00pm. First United Methodist Church, 1838 SW Jefferson, Portland. Mike Fahey will talk and show slides of the GLASS FLOWER COLLECTION AT HARVARD. He will also show slides of Oregon Flowers.

18 Apr., Sat.

Field Trip to SILVAS CREEK, up the west side hills of the Klickitat River. Leave at 8:00am from the K-Mart, NE 122nd and Sandy. Leader: Elizabeth Handler(244-5320).

25 Apr., Sat.

Field Trip to DOG RIVER TRAIL, about 20 miles south of Hood River. Leave from K-Mart at 8:00am or meet at Hood River Inn at 9:30am. Leaders: Herb Armentrout (658-2751) and George Jeffcott.

2 May, Sat.

Field Trip to STARVATION CREEK in Columbia Gorge. Leave at 9:00am from the K-Mart or meet at trailhead at Starvation Creek Rest Area at 10:00am. Leader: Shep Wilson (228-7823).

Memorial Day  
Weekend

Field Trip to SOUTHWESTERN OREGON. Details later, leader will be George Lewis.

## Siskiyou

9 Apr., Thur.

Meeting, 7:30pm. Room 171, Science Bldg., SOSC. Dr. Frank Lang will give a slide presentation featuring the exquisite wildflower photography of John Erwin. Audience participation (in identifying the flowers) will be encouraged. For more information, contact Jan Larson (482-4513).

## Willamette Valley

20 Apr., Mon.

Meeting, 7:30pm. First United Methodist Church, corner of SE Church and State Streets, Salem. (Use the Church St. entrance.) ANNUAL SLIDE SHOW AND TELL. Bring 10-20 of your favorite plant slides to share.

For field trip information, contact Clint Urey (743-2802).

18 Apr., Sat.

Field Trip to NEAKAHNIE MOUNTAIN. Meet at South K-Mart parking lot at 7:30am. Leader: Edna Stevenson (743-2249).

25 Apr., Sat.

GLIDE WILDFLOWER SHOW. Carpool at South K-Mart parking lot at 7:30 am.

2 May, Sat.

Field Trip to MILL CREEK. Meet at South K-Mart at 8:00am. Leader: Clint Urey (743-2802).

9 & 10 May

SILVER FALLS STATE PARK: NATIVE PLANT SHOW.

## Wm. Cusick

- - - - -

For information, contact Rachel Sines (963-0674).

It really is coming--THE ANNUAL MEETING MAY 9-10th which has been planned and advertised for months will actually be here about one month after you receive this April newsletter.

Menucha is finally ensured for us for both nights, Friday and Saturday, plus box lunch and a room for the board meeting Sunday morning. Remember to bring your own bedding including pillow and towel unless advising us to the contrary (\$6.00 charge) immediately. If anyone wants to decide at this late date to stay there, please contact me and I'll check to see if we can make room for overnigheters.

Check-in time Friday night can be as early as 5:00 p.m. For Saturday night, anytime after 11:00 a.m. which would probably be late afternoon if you're on a field trip. Some may want to go directly to the banquet (7:00 p.m.)--there is a bar adjacent to the dining room for early arrivals. Those who wish, may return to Menucha to check in or wash up--it's only a ten-minute drive from the Falls, up the Old Scenic Highway. Maps are either in this bulletin or will be in the May issue.


Banquet space is still open to May 1st by which time we must let the chef know the exact number for dinner. If you haven't already, send \$11.50 for your ticket. As the time approaches, banquet tickets will be mailed to you along with lodging confirmations.

Announcement of field trips and meeting places will be in the May newsletter.

Virginia Diegel  
16415 N.W.Brugger Rd.  
Portland, Oregon 97229

#### SPRING ARBOR FEST - April 18

The 3rd annual Spring Arbor Fest, sponsored by Hoyt Arboretum at the World Forestry Center, will be on Saturday, April 18, 10:00am to 3:00pm. This event emphasizes gardening interests, so we will feature native plants grown for our gardens from seeds or cuttings or purchased from responsible sources.

Mark your calendars for  
*Friends of the*  *Columbia Gorge*

#### 7th ANNUAL GORGE HIKING DAYS

JUNE 13-14, 1987

#### GLIDE WILDFLOWER SHOW

APRIL 25 - 26, 1987

Glide Community Building  
Glide, Oregon Hwy 138E

The 23rd Annual Glide Wildflower Show will present its collection of 500 or more species of flowers, ferns, trees, shrubs, lichens, mosses and liverworts on the traditional last full weekend in April. The flowers are cataloged and exhibited by plant families and are identified by both botanical and common names.

In 1965, Regina Miller, a local botanist, exhibited 71 identified cut wildflowers at a coffee social to which 32 persons attended. It was received with such enthusiasm that it was scheduled to become an annual public affair. The second year, however, was almost its demise. An informative article by Mollie Grothaus in the OREGON JOURNAL launched the project in its third showing. Glide Wildflower Show became established and it has had steady increase in stature and public interest.

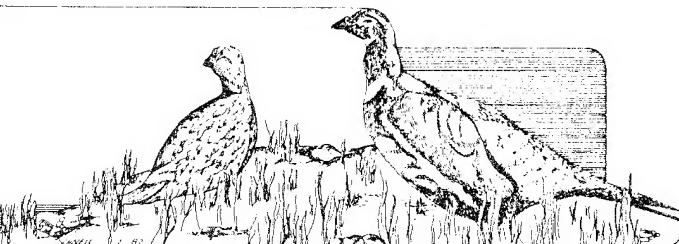
The 1986 show presented 572 plant specimens to 3300 registered visitors from as far away as China, England, Australia, New York, Wisconsin, Florida, Alaska, Washington and California. Maintaining the reputation of this philanthropic endeavor is due to the efforts of many statewide botanists, organizations and agencies, but its foundation is a traditional community project by the citizens of unincorporated Glide area.

Lunch selections, beverages and homemade pies are a part of the tradition at a nominal charge. A floral show book is also available. Admission is free but donations are accepted. The hours are 8:00 AM to 5:00 PM. For further information contact Marilyn Sams, Chair, 496-3739 or Mary Powell 673-8658.

#### Desert Conference IX

P.O. Box 848  
Bend, Oregon 97709

April 24, 25 and 26  
at  
Malheur Field Station





## PRESIDENT'S LETTER . . .

Dear Fellow NPSOers,

A week ago (in late February), I wrote -- on NPSO notecards (!) -- to several of my state lawmakers in Salem letting them know that their support of NPSO's ENDANGERED SPECIES BILL (SB 533) was greatly appreciated. From my State Senator I requested a copy of the bill. As busy as these folks are just now, they all replied by return mail and all had good things to say about our bill. Although I had seen our bill in earlier drafts, it is very nice to be able to study it in its final, 7-page form and to see the official words: "Sponsored by Committee on Agriculture and Natural Resources (at the request of Native Plant Society of Oregon)." If you request our bill, and I urge you to do so, please refer to it by number, SB 533.

At the moment I feel very hopeful that the bill will pass, especially if every NPSOer lets his/her representatives know how we feel about protecting Oregon rare and endangered species. Please write today! Remember, every citizen is entitled to have his say and to request a free copy of any bill.

This weekend I sent off a grant proposal to the Eugene-based McKenzie River Gathering Foundation requesting funds for a Macintosh Desktop Publishing unit for our Bulletin editor. This is NPSO's first grant proposal and I am hopeful that it will be successful. Our Society is 26 years old, we have never been in debt, we are a respected statewide organization involved in successful conservation efforts and have written a bill which is currently in the legislature. We provide scholarships and grants and are part of a coalition of state and national conservation groups. It is a fine record -- one to be proud of and one that I feel will give favorable consideration to our grant request. We can expect a reply from the Foundation in May.

The spring flowers have appeared! I hope all members are enjoying the season and I hope to see as many of you as possible next month -- May 9th and 10th -- at Menucha Lodge in the beautiful Columbia Gorge for our Annual Meeting.

Flowers forever!

Rhoda Love



**SOUTHWESTERN NATIVE PLANT SYMPOSIUM**  
June 18-19, 1987 Albuquerque NM

(See January, 1987, NPSO Bulletin.)

## PROPOSED STATE ENDANGERED SPECIES ACT

The bill would amend and supplement wildlife statutes and statutes relating to the Oregon Natural Heritage Program. Authority and responsibility for threatened and endangered fish and wildlife would rest with the Fish and Wildlife Commission. The State Land Board (working through its Natural Heritage Advisory Committee) would have a similar role for plants.

"Endangered animal would be defined as:

- (a) any wildlife species determined by the commission to be in danger of extinction throughout any significant portion of its range within the state.
- (b) any wildlife species determined to be an endangered species pursuant to the Federal Endangered Species Act of 1973....

Similar definitions in the bill are provided for plants.

The proposed law would make the "taking" of a threatened or endangered species a crime similar to that of other wildlife crimes (Class A misdemeanor).

In carrying out the provisions of the bill, the Commission or Board, as appropriate, shall:

- 1) search for and acquire information about native plants and animals of Oregon;
- 2) list species as endangered or threatened; revise such lists from time to time to reflect status changes, and publish such lists;
- 3) develop recovery programs for endangered and threatened species;
- 4) acquire critical habitat for listed species and manage it for the benefit of the species; and
- 5) withhold sensitive locality information from the public if the security of the species would be harmed by its release.

The bill (Senate Bill 533) would require every state agency to exercise its duties, functions and powers in a manner consistent with the protection and conservation programs established pursuant to this Act. (This is very similar to an existing and workable requirement for federal agencies under the Federal Endangered Species Act.)

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## Legislative Notes

The Oregon Endangered Species Bill (SB533) is a controversial bill and faces stiff opposition in the Legislature. The tentative date for our hearing before the Senate Agriculture and Natural Resources Committee is April 3! Write or call your legislator and urge support of SB533 if you have not done it already. We need your support now!

If you have received more than one educational packet or brochure please pass extras on to other interested individuals. Share the information that is in the educational packet. All state officers and chapter presidents or appointed legislative coordinators have a copy. In addition all the board members have a copy.

Help us make this the year of an Endangered Species Bill for Oregon! A special thank you to Julie Kierstead for all the hard work on the educational packet.

Esther Gruber McEvoy  
State Legislative Chair

The Burns District of the Bureau of Land Management needs volunteer help to prepare for transplanting seedlings of the endangered Malheur wirelettuce, *Stephanomeria malheurensis*. Five 15 ft. x 15 ft. fences need to be built of chicken wire and hardware cloth; and cheatgrass needs to be weeded from inside these exclosures. BLM will provide the materials and tools. Six to 15 people are needed to help for the weekend of April 11 - 12 (the weekend of the Waterfowl Festival in Burns) or April 18 - 19. The fencing and weeding must precede the planting which will be done as a field trip of the Desert Conference on Friday, April 24, and may continue onto April 25. NPSO members are welcome to help with the too.

Volunteers will need to bring lunches, soft drinks, and a jacket. Please contact the Burns Botanist, Cheryl McCaffrey, or the Burns Receptionist at 573-5241 (or Cheryl's home: 573-7001) for arrangements and provide your name, phone number, and dates available. One weekend may need to be set for the fencing and weeding.



#### WILDFLOWER POSTERS

Spring is the prime time to show off NPSO's fine wildflower poster. It would make a wonderful present for school children. Your local library, schools and/or Chamber of Commerce might want to display one. Your local bookstore may wish to carry a supply for the year's wildflower season. They sell individually for \$4 each (\$4.95 if mailed) and can be purchased in lots of 10 for \$3 each. Please refer any orders or distribution ideas to Susan Kofahl, Box 151, Mosier OR 97040. Susan also has a good supply of Silver Anniversary NPSO pins, still a bargain at \$2 each.

#### Directions

Take I-5 south toward Cottage Grove. Leave I-5 at Exit 170 and travel east on London Road. You will pass Cottage Grove Lake (at 7.3 mi from the freeway). Take the road around the south end of the Lake. Continue on London Rd, pass a store and London Grade School, 9.3 mi from freeway. At 13.4 mi from the freeway turn left into Big River Rd.. Go 1.6 mi, you will find Stennet Butte Rd, a BLM road, to the right. Opposite Stennett Butte Rd. you will find a dirt road. This is the road you walk up to the site on. The road has a closed gate made of a railroad rail and painted white. Go up this dirt road 0.7 mi and watch for a wooden sign and flagging directing you to the trail which is on the left hand side of the road as you walk up the somewhat steep dirt road.

#### FEATURES to note along the trail:

Lightening caused fire remains in a stump and adjacent tree;

The County's only "Vine Madrone", a madrone of 8-12 feet snaking across the trail;

A large Douglas Fir root wad, with the earth washed out;

Two flat marshy areas with large Ash Trees;

Large Douglas Fir, estimated to be well in excess of 400 years old;

Large Incense Cedar of about the same age;

An unusual plant community for old growth, having plants associated with dry sites and full sunlight mixed with representative old growth species and mesic site species.

Tom Giesen of the local Isaak Walton League has flagged a preliminary trail with pink streamers. Contact him for the most up-to-date information concerning the Park. Phone Numbers: 683-1646 / 747-2570.

#### GIFT MEMBERSHIPS

Do you have a friend or relative who should be introduced to NPSO? Remember there are chapters throughout Oregon, and we have a number of members living out of state who belong to NPSO just to keep in touch with the northwest scene. Keep NPSO in mind when you are trying to think of the right birthday or holiday gift for that right person.



NPSO GRANTS FOR PLANT SURVEYS ON BLM  
EASTERN OREGON LANDS

NPSO has an interest in the responsible management of the plant resources of Central and Eastern Oregon on BLM lands. The NPSO research grant and volunteer program for 1987 is directed toward the goal of working with BLM staff on plant inventories, surveys for T & E species, and monitoring Research Natural Areas (RNA), Areas of Critical Concern (ACEC) and Wilderness Study Areas (WSA).

Discussions with BLM staff and conservationists have resulted in the following list of projects for volunteers/researchers for 1987. Work to be done is in the Vale, Lakeview, and Burns Districts, and will be coordinated through the local District offices.

1) Herbarium work at OSU and U of O. Using species lists provided by BLM, herbarium records will be searched for sightings in Eastern and Central Oregon. Copies of herbarium label information and related information will be sent to BLM.

2) Relocate and reinventory known sites of T & E species. A list of species will be provided by BLM along with sighting reports and maps.

3) Inventory RNAs. In the Vale District, Honeycombs RNA/ACEC and Stockade Mountain RNA, and in the Burns District, Pueblo Foothills RNA need inventory, including species lists and habitat descriptions.

4) Survey and map Haplopappus radiatus. Conduct field survey and map the distribution of Haplopappus radiatus in the Baker Resource Area.

5) Inventory Wilderness Study Areas for botanic resources. Of the more than 75 WSAs, many have had no plant and habitat surveys. Work on the unsurveyed WSAs is urgently needed. The following WSAs are highly recommended: 1-58 Diablo Mountain and 1-146B Sage Hen Hills are in the Lakeview District. The following are in the Vale District: 3-53 Dry Creek, 3-56 Dry Creek Buttes, and 3-110 Lower Owyhee Canyon are in the Owyhee River area; 3-152 Willow Creek and 3-157 Oregon Canyon are in the Trout Creek Mountains; and 3-118 Bowden Hills.

More projects are proposed than can be accomplished with our limited grants money. Volunteers are encouraged to participate in these projects. Volunteers and researchers must make application at District offices for volunteer/research work, and must obtain permits to conduct research and collect plant specimens for vouchers.

For more information contact:

Barbara Fox  
NPSO Grants Chairperson  
11455 SE 35th  
Milwaukie, OR 97222  
659-2445

Cheryl McCaffrey, Zone Botanist  
Burns District BLM  
74 South Alvord St.  
Burns, OR 97720  
573-5241

Additional reference materials:

Map: Southeast Oregon Special Management Areas, July 1984, published by BLM.  
Draft Environmental Impact Statement: Oregon Wilderness, April 1985. and Supplement to Draft, January 1987. Available for loan or review at BLM offices, ONRC offices, and many Audubon Chapters.

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GUIDELINES FOR NPSO SUMMER  
GRANTS 1987

The NPSO Board at its January 1987 meeting established a budget of two \$300 grants to be awarded to NPSO members who will conduct plant surveys on BLM lands and in selected BLM Wilderness Study Areas (WSA) and Research Natural Areas (RNA) this summer. (See article)

Following is information to consider for submitting a grant proposal.

1) Preference will be given to work on projects listed in the above article. All work will be done in cooperation with District BLM staff. Applicants must show a willingness to work within the BLM volunteer/research programs, e.g. "Take Pride in America". This includes submitting volunteer application forms, gaining permission to conduct research on BLM lands, and obtaining any needed permits for plant collecting.

2) A proposal (maximum of three pages) must be submitted that contains the following: basic purpose or goal of the project; description of the work to be accomplished; where, when, and how the work will be conducted; the applicant's name, address, phone, botanical experience; and



name, address, and phone of two people who know of the applicant's botanical work.

3) A final written report is required that summarizes the work accomplished. This may include plant lists, habitat descriptions, field notes, lists of voucher plant specimens (deposited at OSU), maps of travel, observations, and conclusions. Three copies of the report will be required, with one to BLM, and two to NPSO.

4) The final report is due on or before November 1, 1987. In the event that the final report is late or unacceptable, the researcher must apply directly to the State NPSO Board for the remaining payment.

5) One half of the grant will be awarded immediately prior to the field work, and the other half upon acceptance by the grants committee of the final written report.

6) A grants committee will select the proposals for award, monitor progress, approve payment of money, and approve acceptance of the final report.

7) Proposals must be submitted by May 1, 1987, to Barbara Fox, 11455 SE 35th, Milwaukie, OR 97222.

8) Information is available from Barbara Fox, Grants Chair, 11455 SE 35th, Milwaukie, OR 97222. Phone: 659-2445, and from Cheryl McCaffrey, Zone Botanist, Burns District BLM, 74 South Alvord St., Burns, OR 97720, Phone: 573-5241.

## W E L C O M E   N E W   M E M B E R S

### BLUE MOUNTAIN

Robert Mountain  
Ed Alverson

### BLUE MOUNTAIN

Robert Mountain

### CORVALLIS

Ed Alverson  
Sheri Confer

### EMERALD

Fran Breen  
Robert Castleberry  
Doreen Jones  
Dennis Lueck  
Danna Lytjen

### MID COLUMBIA

Tom Armentrout & Family  
Janice & Lew Merz

### NORTH COAST

J. MacFawn  
Pat Sears

### PORTLAND

Violet Kaser  
Florence Matson  
Kris Perkin  
Patricia Stipe

### SISKIYOU

Susan Baker  
Lydia Gruber  
Diana Moss  
Gail Newton  
Darlene Southworth  
Martha Tyler

### WILLAMETTE VALLEY

Pat & Roy Blomgren  
Jean Massie

### WM. CUSICK

Kent & Celia Coe

## SUMMARY OF WORK FUNDED UNDER 1986 NPSO GRANT

Q: What do Long Draw, Mickey Basin and Silver Creek have in common? A: All three are Research Natural Areas (RNAs) located in Harney County and were the subject of preliminary floristic surveys funded by an NPSO grant to us last summer.

These three RNAs were formally designated by the Bureau of Land Management in 1983. Long Draw was established to protect an Oryzopsis hymenoides/Stipa comata (Indian ricegrass/needle-and-thread) community which grows in association with Artemisia tridentata (big sagebrush). The RNA covers about 440 acres. The area was originally recognized for its natural values by Al Franklin, then a BLM botanist, while he was conducting a plant survey on a proposed pipeline with water troughs for cattle.

Mickey Basin was designated to protect a Ceratoides lanata (winterfat) community. This is a relatively rare plant community in Oregon. The RNA covers about 560 acres. This area was first identified in 1976 by a team of students studying the ecology of the Alvord Basin. Julie Kierstead was part of that group.

Silver Creek contains about a square mile (640 acres) and was established to protect three plant communities: 1) a third order stream and associated riparian zone; 2) an Artemisia tridentata/Agropyron spicatum (big sagebrush/bluebunch wheatgrass) community; and 3) an Artemisia arbuscula/Festuca idahoensis (low sage/Idaho fescue) community. This area is an isolated section and was essentially ungrazed because of a land ownership pattern which left it fenced on all four sides.

Our work focused on identifying and describing habitats and developing species lists for each RNA. We made three trips to Harney County in the course of completing our work. One was in May (when it was over 90° and the bugs were vicious, but the flowers were wonderful), one in late August, and the last in October (when the nights were cold--as low as 15°--brrrr!).

At Long Draw we found almost 100 plants occurring in three general habitats. All but four were native species. Shrubs accounted for 16 species, grasses 9, and the rest were forbs. Perhaps the most interesting find was not actually in the RNA itself, but a short ways outside its boundary. This was a species not previously known from Oregon: Gilia salticola.

Mickey Basin yielded 74 plants in two general habitats. Five exotic weeds and one sensitive plant were located. Chaenactis macrantha is considered threatened in Oregon. The species list includes 14 shrubs, 7 grasses, and the remaining 53 forbs.

Silver Creek was the largest of the RNAs studied, and the most diverse. We recognized six habitats and located 129 plant species. Five exotic weed species were identified. Unlike the other two RNAs, there were trees! Ponderosa pine and western juniper were the most common, with mountain alder and quaking aspen also present. The biggest tree we saw was a pine that measured just shy of 60 inches in diameter (that's 5 feet!). The oldest tree we aged was another pine. It was approximately 436 years old, but only 46 inches in diameter.

We enjoyed our work and want to thank all of you for making it possible.

Carolyn Wright and David Gross  
Mid-Columbia Chapter

What the west side needs is a better slug. A smarter slug; one that can be trained to eat weeds and leave the good stuff alone. Of course, a bunch of the slugs around here are animal weeds from other continents anyway. Given that, slugs may not want to make the distinction between native and introduced species. But we as botanists always do.

Plant lovers look at non-native plants in a variety of ways, ranging from starry-eyed approval to botanical xenophobia. It depends on the weed and the weedeer.

Consider those aliens slugging it out among the bluegrass, fescue and tomatoes in the back yard. They are uninvited foreigners, like goosefoot (Chenopodium album), dandelion (Taraxacum officinale), and chickweed (Stellaria media). Alien weeds are as ubiquitous as mice and cockroaches, despite suburban lawn-chemical warfare. Aside from a few natural salad freaks, nobody likes a lawn weed.

Multitudes of weeds came as volunteers to North America. Some made it here so quickly that they are listed in the earliest floras. It seems only just that the long and successful history of these invaders should be documented in our plant books. But have you ever noticed how many botanical writers tend to sneer at weeds off the record?

Some weeds started out under different circumstances in Oregon. Hopeful gardeners planted them in dooryards and fish ponds, where they flourished. These decorations have turned out to be pit vipers in the baby's crib. After finishing off those early gardens, they spread out across the landscape. Now they are crowding out our cherished native species. These psychopathic garden-killers include English ivy (Hedera helix), Scot's broom (Cytisus scoparius), waterweed (Elodea densa), and Himalayan blackberry (Rubus discolor). We can find these noxious species in our recent floras, where they are called naturalized introductions. (Amazingly enough, Hedera and Cytisus are still avidly planted by landscaping firms. Which raises the tangential political question, how could you introduce a biological control to kill a despicable plant species that is worth millions of dollars alive to local industry?)

Why are some cultivated plants that became weeds not recognized as such in our local floras? Take the case of holly (Ilex aquifolium L.). Everybody has some ornamental English holly growing in their yard, or knows someone that does. It has been around for most of the century, at least, and it shows no signs of disappearing from the west side. Birds eat the showy red berries and poop the seeds all over the place. Then little hollies come up in the cracks in the sidewalk in Portland, in hawthorn hedges at Oregon State University (OSU), and in swank vegetable gardens in Lake Oswego. Out here in Lincoln County, where I am, holly comes up in pastures, on roadsides far from any houses, and by fenceposts (just where a robin might land to unload).

Heck, holly is more than just a weed, it's insidious (that's close to noxious in my book). English holly will sprout in the shade, so it's all over the woodlots on this part of the coast. I've seen it under young alder, and in mixed conifer-alder woods. Once I found a holly sprout in old growth sitka spruce on Neskowin Crest.

Ok, you are convinced English holly is a weed. You probably knew that anyway. Why isn't it in any of the NW floras? The family Aquifoliaceae isn't even in our floras. Why are there no collections of wild plants at the herbarium at OSU, where the curator openly admits the cases are filled with weeds of Oregon? Because English holly is a cultivated plant, we as botanists are not giving it the any press.

I think there are several reasons we should start writing about cultivars that romp around on the far side of the garden gate. The presence of weeds indicate in a general way the amount of disturbance and domestication of our environment. (It's like monitoring air pollutants.) This publication and our vigilance might help the beleaguered weed control officers in the Dept. of Agriculture. It's possible we might convince the Highway Dept. and landscaping companies to stop planting some of the most offensive weeds. And we should be keeping track of new weeds, so they can be included in the next plant manual of Oregon. Since regional floras are the basic form of communication between botanists and the rest of the world, I think it is very important that a flora includes all weeds, not just some of them.

Clearly we need a few ground rules. What's a weed anyway? Or rather, when does a garden plant become a weed? I suggest a "valid weed" is a non-indigenous plant spreading outside of cultivation for five years or more. This allows for a certain period of time, to ensure the plant is actually naturalized, or successfully competing and reproducing in a wild environment. So trees, shrubs and perennials planted around ancient cellar holes aren't weeds, unless they are spreading.

Documentation of a "new" weed is important. Unlike native species, which we wisely worry about overcollecting, weeds are made to be mangled by conservationists. Rip up those aliens and press them and give them to your favorite museum, with good label data. Get the roots and flowers, the whole thing. Don't bother with the photographs and all that non-violent documentation (see the guidelines for voucherizing native plants in the April, 1986 NPSO bulletin). If it's a weed and it's not in the recent published floras, you should be able to convince the local herbarium curator that it deserves a place in the plant morgue, next to its dead relatives.

A few weeds from western Oregon that I collected in 1986, besides Ilex aquifolium, do not show up in the local floras. One is Cotoneaster franchetii Bois., and another is Cotoneaster horizontalis Decne., in the Rosaceae. I found both on Cascade Head, Tillamook County. They are common cultivars in nearby Lincoln City and Neskowin, and surely birds are guilty of dispersing their seeds (and those of Ilex) to the headland prairie.

In April of 1986 I was taken to a thriving colony of Dracunculus vulgaris L. (Araceae) in Roseburg, Lane County. My guide explained that his family has lived in the house for more than 50 years. Dracunculus suddenly appeared, uninvited, about 20 years ago. For three years the family battled the alien before surrendering to its deep-seated bulbs. They learned to live with dozens of tiny offsets in the brick sidewalk and tenacious four-foot monsters among the English ivy (of all the things to compete against!). My host was



delighted I wanted to kill some Dracunculus in the name of science. He even brought me a shovel so I could collect: "just a bit more, please." (At the 1986 Glide Wildflower Show several visitors described odd Araceae weeds on their property; has Dracunculus already spread beyond Roseburg city limits?)

I've noticed a few other weedy cultivars, and some that seem likely to become established weeds within five years. These include nasturtium (Tropaeolum, Tropaeolaceae), which grows in salal thickets above the beaches north of Lincoln City; montbretia (Crocsmia, Iridaceae) which grows on dunes at Cannon Beach and in ditches near Florence; German iris (Iris germanica, Iridaceae), which I have seen covering a

trash dump and invading a vacant weedy field in the hills near Mosier; and pheasants-eye (Narcissus poeticus, Amaryllidaceae), growing with the German iris. Weeping birch (Betula pendula, Betulaceae) is spreading into the woods from an abandoned trailer park in Otis Junction.

I hope some other bulletin readers will write in about "new" weeds that aren't in the floras of the NW, as Frank Lang has encouraged us (April, June and August 1986 NPSO bulletins). If we are going to keep track of our vanishing native species, we might as well keep track of the plants that are replacing them.

Peter F. Zika

Salem Chapter

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#### WHERE TO FIND SOME OLD GROWTH FORESTS

The Oregon Natural Resources Council, based in Eugene, is working on a list of large old growth forests that are readily available for viewing from adjacent roads or trails. Information at present is mainly for the Mt. Hood, Willamette and Siuslaw National Forests but they want to eventually cover all forested areas in the state. They would like information on other areas that Native Plant Society members know about, which they have not already listed. This article summarizes areas in the Mt. Hood N.F. that they have listed plus some others the writer knows about, including one BLM tract.

##### Sandy River BLM Land

Located on the east side of the Sandy River, this irregularly shaped tract of about 80 acres is considered one of the best old growth tracts left in the northern Willamette Valley. It is located in Section 23, R. 4 E., T. 1 S. about a mile above the mouth of Gordon Creek.

##### Salmon River Trail 742

This trail leaves Forest Road 2618 just past Green Canyon Forest Camp in the Welches area and goes past some large trees in the stream bottom and is nicely timbered with somewhat smaller trees for several miles.

##### Still Creek Road

This road leaves the Mt. Hood Loop, Road 26, just east of Zig Zag Ranger Station and follows Still Creek to Still Creek Campground just east of Government Camp, where it rejoins Hwy. 26. About 3½ miles in from Zig Zag R.S. are some large Douglas firs and red cedars. This whole water shed is heavily timbered but the Forest Service is to sell timber in this canyon so that it will not be long until clear cuts are noticeable.

##### Eagle Creek/Salmon-Huckleberry Wilderness

Take Hwy. 224-211 heading for Estacada but about four miles north of Estacada and about a mile past the Eagle Creek store, turn left (east) on Wildcat Mt. Road. This is just before the highway crosses Eagle Creek. This is not the Columbia Gorge Eagle Creek but the one tributary to the Clackamas River. Keep right after 1½ miles, following signs to Eagle-Fern Park and the George Community. Stop at Eagle-Fern Park for a look at the large old growth red cedars. Continue through the George district following signs for Trail 501 to where the road starts

down into the Eagle Creek canyon. It is best to park here unless you have a four wheel drive vehicle. This is about 15 miles from where the route left Highway 211.

It is about 2½ miles to the Wilderness boundary. Most of the timber is about 125 years old but with scattered older trees. This trail continues nearly to the head of the creek, where it climbs out of the canyon near Squaw Mt. Going this far would require either a car shuttle from the upper end or overnight camping gear. This trail is at a low enough elevation that it is available for hiking most of the winter.

##### Clackamas River Trail 715

This 8 mile trail along the south side of the river across from Hwy. 224 can be hiked from either end. Take Hwy. 224 upstream from Estacada about 15 miles, turn right onto Fish Creek Road (FS 54) and park on the right shortly after crossing the river. The trail starts on the left and is in old growth timber most of the way. The alternative is to drive another 7 plus miles to Sandstone Road (FS 4620) and proceed about 0.3 miles on it to the upper trail head on the right.

The best way to hike this entire trail is to arrange for a car shuttle. Pup Creek Falls, about half way along, is a point of interest. Ecologists tell us that Douglas fir is not the climax forest species on the west side of the Cascades; even though it occupies millions of acres, it will eventually die out from old age and be replaced by shade tolerant Western Hemlock and Red Cedar. There are places along this trail where this seems to be happening. Such examples are rare because fire or windthrow usually intervene first, creating large enough openings for the Douglas fir to replace itself. Douglas fir requires a fair amount of light which in turn means an opening of some size. The cycle from young Douglas fir to take over by the shade tolerant hemlock and cedar (as individual Douglas fir die of old age) probably takes around 1000 years. This is why good examples are rare as fires or other catastrophes have usually interrupted this cycle and the Douglas fir has replaced itself. With modern lumbering methods little Douglas fir will get to be 100 years old, much less than the 1000 years needed to complete the natural succession of species.

##### Riverside Trail 723

This trail is similar to the preceding one but is further upstream and only about 4 miles long. Travel

Continued on page 42



26 miles up the Clackamas on Hwy. 224, past Ripplebrook Ranger Station, across the Oak Grove fork of the Clackamas and turn right into the Rainbow Forest Camp. The trail starts at the far end of the campground. The trail stays on a high bank above the river and ends at Riverside Forest Camp. Good views of the river and timber along the trail. Return can be along the trail or on the road.

#### Big Bottom

The route here is the same as for the preceding trip, as far as the crossing of the Oak Grove fork. Continue here to the left on Hwy. 224 (also signed FS 46) past Austin Hot Springs (privately owned) for about 4 miles, turn right on FS 4650, then left on FS 4651 and proceed  $3\frac{1}{2}$  miles to FS 120 and turn hard left. A turn either right or left on FS 140 off of FS 120 goes through Cathedral Forest. Road 120 usually has a locked gate across it from Dec. 1 to April 1. In this event, cross country travel from the road to the river should go through some outstanding groves.

#### Bagby Hot Springs

Cross the Oak Grove fork as in the previous two trips but bear right on FS 63 to FS 70. Turn right on FS 70 and follow signs to Bagby Hot Springs trail head. The hike from the road to the springs is about two miles and goes past some really large trees. This same trail, No. 544, continues beyond the springs and soon enters the Bull of the Woods Wilderness and eventually ends up on the Breitenbush River, after passing Elk Lake. This is a trip for a properly equipped backpacker and requires one or two nights on the trail.

#### Dickey Creek

This trip is also into the Bull of the Woods Wilderness. Follow the route indicated for Bagby Hot Springs but go past FS 70 up to the Collowash River on FS 6340 to FS 140 to the left. The trail starts at the end of FS 140 and goes past big timber in the creek bottom. This trail also gives access to much of the Bull of the Woods Wilderness.

#### Elk Lake

This area is in the far south of the Mt. Hood N.F. and the Bull of the Woods Wilderness. Take the North Santiam Hwy. 22 to Detroit, turn left and drive north on FS 46 along the Breitenbush River a little over 4 miles to the Elk Lake turn-off (FS 4696). In less than a mile turn left on FS 2209. Stay on this road for six miles to Elk Lake. The last two miles are very rough and should not be attempted with a low clearance car. Large old growth Alaska Cedar are found on the south and east shores of the lake. Trail 559 enters the Bull of the Woods Wilderness from the easterly end of the lake and goes through large timber for the first mile.

Anyone knowing of other outstanding old growth timber should report them to chapter officers or directly to the Oregon Natural Resources Council, 1161 Lincoln St., Eugene, OR 97041. They have records of many more outstanding groves in the Willamette and Siuslaw N.F.s but space does not allow listing in the article.

Those not familiar with the areas discussed above but who wish to visit them should have a Mt. Hood N.F. map along.

Ronald E. Burnett, Portland Chapter

#### LEONARD L. WILEY, FOUNDER OF NPSO, PASSES AWAY

Leonard Wiley, botanist, author and tree surgeon died Wednesday, March 11, in Portland. He was 82.

Mr. Wiley operated a botanical consulting business from his home in SE Portland for years. He also wrote garden and botanical articles for The Oregonian's Northwest Magazine.

He was also a science writer for the California Academy of Sciences and the Reader's Digest and was the author of three books: "Rare Wild Flowers of North America," "Wild Harvest" and "The Granite Boulder." The latter work, published privately by Mr. Wiley, chronicled the life of Frederic Homer Balch, the 19th century Portlander who wrote "The Bridge of the Gods."

Mr. Wiley was the founder of the Native Plant Society of Oregon. (See June, 1986, issue of NPSO Bulletin, page 64.) His biography and photograph are in "Botanists of the World from Ancient Times to the Present" at the Rachel McMaisters Miller Hunt Botanical Library of the Carnegie Institute of Technology.

Survivors include his wife, Eleanor, and a son, Charles, and four grandchildren.

The family has suggested contributions in his memory to the Youth Shelter House at SW 13th Avenue and Washington Street in care of Burnside Projects, 523 NW Everett St., Portland, OR 97209, or to the Reed College scholarship fund.

#### 1987 MALHEUR FIELD STATION COURSES ANNOUNCED

Below is a listing of a few of the many courses offered this year by the Malheur Field Station in SE Oregon. They have an excellent program.

June 14- July 4	Cultivated Plants of the High Desert Field Botany & Ecology Advanced Plant Identification SE Oregon
July 5-25	Research Techniques in Field Botany
July 26- Aug. 15	Vascular Plants of Steens Mountain
June 7 - 14	Plant Identification
July 6 - 12	Field Botany for Beginners
July 7 - 16	Wetland Ecology Workshop
July 19 - 28	" " "
Aug. 8 - 16	Desert Wilderness: Steens Mtn. W.S.A.

For more information, contact Director, Malheur Field Station, Box 260-E, Princeton, Oregon 97721 (503) 493-2629.

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Membership in the Native Plant Society of Oregon is open  
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(including old address & zip code) should be sent to the  
membership chair.

# BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
the 10th of the month & should be sent to the editor.  
News, articles, photos, drawings, & non-copyrighted  
materials are welcomed.

# GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed,  
camera-ready copy is much appreciated. But  
no submission will be rejected because it is  
not typed. Please proofread & check facts.  
DEADLINE: 10th of each month  
FORMAT: Copy should be typed in 4 1/4 inch wide  
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ter affiliation (or other organization) are  
typed at the end of the article. There is no  
standard paragraph treatment; one of these  
is suggested:

- \* for long articles, double space between  
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In case of special formats, e.g. plant keys,  
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CREDITS: For each submission, provide
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ILLUSTRATIONS: black & white prints, ink  
drawings, woodcuts, halftones, et al. We  
welcome small doodles as well as larger  
efforts. Please give source & date, if not  
original.

SCIENTIFIC NAMES should follow Hitchcock &  
Cronquist's Flora of the Pacific Northwest  
where possible. Use of both scientific &  
common names is encouraged. Genus & species  
names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustra-  
tions will not be returned unless it is  
requested.

The Bulletin is published as a service to  
NPSO members & the public. Your suggestions  
& comments are always welcome.

# # #

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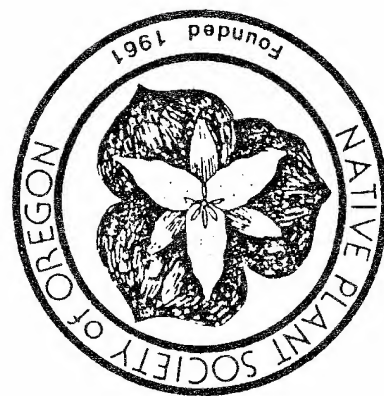
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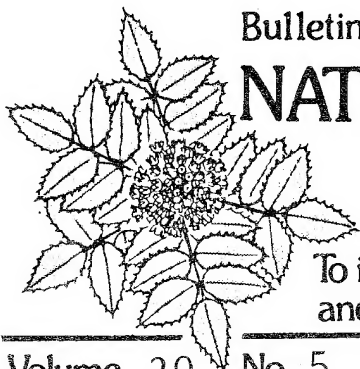


Native Plant Society of Oregon  
1960 NW Lovejoy #2  
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To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

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1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

- 2 May, Sat. Field Trip to UMATILLA FORKS. Meet at BMCC Greenhouse at 8:30am (bring a lunch).  
Leader: Bruce Barnes (276-5547).
- 24 May, Sun. Field Trip to MORGAN LAKE, near LaGrande. Meet at 8:00am at BMCC Greenhouse or  
at 9:15am at the Safeway parking lot in LaGrande (bring a lunch). Leader: Ruth Rouse.
- 30 May, Sat. Field Trip to LOGAN VALLEY near Prairie City. Meet at 7:00am at BMCC Greenhouse or  
at 10:00am at Clyde Holliday Wayside between Mt. Vernon and John Day (bring a lunch).  
Leader: Karl Urban.
- 20 June, Sat. Field Trip to BALD MOUNTAIN. Meet at 8:30am at BMCC Greenhouse or at 9:45am at  
the intersection by Langdon Lake in Tollgate. Leader: Ruth Rouse.

### Corvallis

- 11 May, Mon. Meeting, 7:30pm. Room 205, Withycombe Hall, OSU Campus. Tom Kaye of the OSU  
Botany Dept. will give a slide show and talk on the LANDSCAPE AND VEGETATION OF THE  
OLYMPIC MOUNTAINS.
- 16 May, Sat. Field Trip to SAND LAKE led by Dick Vander Schaaf of The Nature Conservancy. For  
more information contact Dan Luoma (758-8063).

### Emerald

- 11 May, Mon. Meeting, 8:00pm. Amazon Community Center, 2700 Hilyard, Eugene. A multimedia  
slide presentation from the Berry Botanic Garden in Portland, "A Garland of  
Generations", will be shown in conjunction with an information session about  
Oregon's Rare and Endangered Species Bill, SB533.
- 17 May, Sun. Mt. Pisgah Flower Show, Eugene.
- 6 June, Sat. Field Trip to BIG RIVER OLD GROWTH PRESERVE, south of Cottage Grove. Meet at  
10:00am at the Lane Community College south parking lot, adjacent to the Science  
Building or at the intersection of Big River Road and Stennett Butte Road near the  
site at 10:45am. Directions to Big River are printed in the April issue of the  
Bulletin.

### High Desert

- All field trips leave from the parking lot behind MacDonald's Restaurant, 2048  
NE 3rd, Bend, at 9:00am. Carpools are encouraged. Bring a backpack lunch.  
Non-members are welcome. For more information call Stu Garrett (382-2681).
- 2 May, Sat. Field Trip to The Nature Conservancy's METOLIUS RIVER PRESERVE. Very short hike  
( $\frac{1}{2}$  mile). Four ecological zones --- Fen, Riparian, Humid Coniferous Forest, and  
Dry Ponderosa Pine. Leader: Ken Robinson (382-1452).

- 6 June, Sat. Field Trip to POWELL BUTTE. A moderate 4 mile hike with great views in BLM administered area. Leader: Stu Garrett (382-2681).
- 27 June Sat. Field Trip to OCHOCO BIG SUMMIT PRAIRIE. Emphasis on riparian areas with an expert from USFS. Leader: Bud Kovalchik.

## Mid Columbia

- 6 May, Wed. Meeting, 7:30pm, Mosier School. Program will be slideshow "Wildflowers of the Columbia River Gorge" by Nancy Russell of the Friends of the Columbia River Gorge. It will include habitats, blooming times, and information about early botanical explorers.
- 16 May, Sat. Knapweed Pull. Meet at 9:30am at the Rowena Plateau, Tom McCall Nature Conservancy Preserve for a knapweed pull in the morning. Bring your own bag lunch. Then either a leisurely ramble over the plateau or a hike to the hilltop viewpoint. Everyone invited then for late afternoon refreshments at Susan Kofahl's home, 2050 Mosier Creek Road. (478-3576).

## North Coast

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For information, contact Roy Peters (842-9284).

## Portland

- 2 May, Sat. Field Trip to STARVATION CREEK in Columbia Gorge. Leave at 9:00am from the K-Mart on NE 122nd and Sandy Blvd., south end of parking lot, or meet at Starvation Creek Rest area at 10:00am. Leader: Shep Wilson (228-7823).
- 9 May, Sat. NPSO ANNUAL MEETING FIELD TRIPS:
- ANGEL'S REST. Easy 5 mile trail through woods and across talus slopes to a rocky outcrop 1,600' above the Columbia River. Spectacular wildflowers, waterfall and view. Meet at Woman's Forum State Park at 9:00am (see driving directions below) or at Wahkeena Falls parking area at 9:15am. Leaders: Dave Dobak (643-2213/home or 627-3072/work) and Jan Anderson (248-9242).
- HAMILTON MOUNTAIN (Wash.). Hike through timber, passing Pool of the Winds at Rodney Falls, to open slopes, rocky ridges and cliffs. Variety of plant habitats and excellent view of Columbia Gorge. Meet at Woman's Forum State Park at 9:00am (see driving directions below) or at north end of Bridge of the Gods at 9:45am. Leader: Lois Kemp (760-4998).
- Directions to reach Woman's Forum State Park from Portland: take Corbett Exit off of Highway I-84. At Corbett, go east about 2 miles. Woman's Forum State Park is a prominent viewpoint on the north side of the road. From Menucha it is a short drive east.
- 12 May, Tues. Meeting, 7:00pm. First United Methodist Church, 1838 SW Jefferson St., Portland. Molly Grothaus will talk and show slides on GROWING PLANTS IN YOUR GARDEN.
- 16 May, Sat. KNAPWEED CAPER, Rowena Plateau. Pull knapweed (Centaurea diffusa and C. maculosa) from 9:30am until noon. After lunch ramble over the plateau or hike to the hilltop. Finish the afternoon with refreshments at Susan Kofahl's home near Mosier. Leave from K-Mart at 8:00am or meet leader at Rowena Plateau (Mayer State Park viewpoint) at 9:30am. Leader: Susan Kofahl (478-3576).
- 23-25 May  
(Memorial Day  
Weekend) Field Trip to SOUTHERN OREGON out of Cave Junction. Meet leader at Cave Junction Inn on Sat. at noon or 8:00am on Sunday. Contact leader if further information is needed. Leader: George Lewis (292-0415).
- 30 May, Sat. Field Trip to NEW DOG MOUNTAIN TRAIL. See new places and views - about half of the trail has been re-located. Flowers should be at their prime. Leave from K-Mart at 8:00am or meet at trailhead at 9:30am. Leader: Elizabeth Handler (244-5320).

## Siskiyou

- 14 May, Thur. Meeting, 7:30pm. Room 118, Science Building, SOSC. Dr. Bastiaan Meeuse, Professor of Botany at the University of Washington, will show the Oxford Scientific Film SEXUAL ENCOUNTERS OF THE FLORAL KIND. For more information, contact Jan Larson (482-4513).
- 16 May, Sat. Field Trip. Dr. Bastiaan Meusse will accompany us on a field trip to the Illinois Valley, where we will visit the Darlingtonia bogs. Meet at the Ashland Bi-Mart at 8:00am or the Medford K-Mart at 8:30am to carpool. Bring a lunch. Leader: Frank Lang (482-6341 or 482-5235).
- 30 May, Sat. Field Trip to JUNIPER RIDGE. Unusual habitat in the Western Cascades (oak, juniper and mountain mahogany with meadows and scablands). Some scrambling in rugged terrain, no trails. Meet at Ashland Bi-Mart at 8:00am or at Medford K-Mart at 8:30am. Leader: Wayne Rolle (482-0093).
- 7 June, Sun. Field Trip to SODA MOUNTAIN PROPOSED WILDERNESS AREA. Explore the Pacific Crest Trail and Lone Pine Ridge; great views and wildflowers. Meet at Ashland Bi-Mart 9:00am. Leader: Juniper Brock (482-4357).
- 13 June, Sat. Field Trip to GREENSPRINGS TO HOBART BLUFF. A real mosaic of plant habitats, some in the Soda Mtn. Wilderness Proposal. Eight miles of hiking with grades, shorter options. Meet at Ashland Bi-Mart at 9:00am. Leader: Diane Meyer (482-2263).

## Willamette Valley

- 2 May, Sat. Field Trip to MILL CREEK. Meet at 8:00am at South Salem K-Mart parking lot to carpool. Easy hiking. Leader: Clint Urey (743-2802).
- 16 May, Sat. Field Trip to CAMASSIA. Meet at 8:00am at South Salem K-Mart parking lot to carpool. Easy hiking. Leader: Dr. Susan Kephart (371-7161).
- 27-28 May Field Trip to OCHOCO MOUNTAINS, overnight trip. Wed. (5-27) near Prineville. Christy Steck leader for Thurs. (5-28) all-day trip. Camping available. Prineville Motel list Available. For sign-up and additional information, contact Clint Urey (743-2802) after April 16th.

## Wm. Cusick

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For information, contact Rachel Sines (963-0674).

### NPSO STATE ELECTION RESULTS ARE IN

The ballots are counted; the new officers for 1987-88 will be:

President:	Dan Luoma
Vice-President:	Marjorie Willis
Treasurer:	Marjorie Ettinger
Secretary:	Charlene Holzwarth
Board of Directors:	David Gross
	Russ Holmes
	Esther McEvoy

### A DIFFERENT ROSE (AND ITS RELATIVES)

Rose Festival events will be ending in Portland on the weekend of June 13 and 14, the dates for Portland Chapter's display of wildflowers in World Forestry Center.

So the rose, and some members of the rose family, will be featured in the display case that WFC has made available for promotion of the show during the preceding month. A watercolor, ink drawing, field sketches and photographs will suggest ways to collect native plants (other than picking!) If you are near WFC, main hall at upper end of Zoo-OMSI-WFC parking lot, anytime after May 15, check out our display.

And keep those dates, Saturday and Sunday, June 13 and 14 on your calendar to see the "Flowers in the Forest" display. This is a reminder for non-Portlanders, says Jeanne Huffstutter, show chairman, because local members surely have those dates circled, and nearly 50 are signed up in work parties.

### FIELD TRIP FORMALITIES

Some hints for newcomers to our field trips...most important — come! We're headed for some great flower places this spring.

- Be on time, "meet" and "depart" are often synonymous.
- Bring lunch, including water.
- Dress appropriately, with warm layers to add or remove and, almost always, rain gear. Umbrellas are popular.
- Bring hand lens if you have one, a small notebook and pencil.
- Carpool expenses are not prescribed but be sure to contribute to the driver's cost.
- If you need to know estimated time of return, or hiking difficulty or other details, call the trip leader.





## Legislative Notes

On Friday April 3rd we had our first hearing on SB 533, the Endangered Species Act for Oregon. Our hearing was delayed by an hour and a half, yet we still almost filled the hearing room with supporters of the bill. Senator Bradbury, chairman of the Senate Agriculture and Natural Resources Committee was impressed with the large turnout and with the testimony. Our first hearing was a success! Thank you one and all for making the special effort to come to the hearing.

This is the first hearing I have ever attended at the capitol. I did not realize that everyone should sign up right before the hearing in order to testify. Apparently there is usually an announcement in the beginning of the hearing to inform the public how to testify. For our next hearing, make sure to sign up for testifying or talk to the recording clerk when you arrive at the hearing. One can always submit written testimony whether you testify or not.

Since our hearing had such a large number of people who testified, the state agencies were not able to testify. So, on April 15, there will be a special work session to finalize the amendments to the bill. We hope that after the work session the committee will vote on the bill favorably and pass it to the Senate floor. We will be keeping the key contact people for each chapter informed as to the progress of the bill.

The letters and phone calls to your senators and representatives have been making a difference! Senator Hannon and Senator Brockman have mentioned they are receiving a lot of mail on the bill.

Keep those letters and phone calls coming to your senators and representatives!

Thank you.

Sincerely,

*Esther*  
Esther Gruber McEvoy  
State Legislative Chair

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### NOTECARDS FOR SALE

The Central Puget Sound Chapter of the Washington Native Plant Society has produced a set of five notecards, all showing illustrations of threatened or sensitive plants within the state of Washington. The 5 3/8 by 4 1/4 inch cards are on attractive linen textured card stock with matching envelopes. Used for the illustrations were lovely pen and ink drawings by Mildred Arnot and Libby Mills, both WNPS members.

The notecards would make great gifts for birthdays or holidays, hostess gifts, etc. Or buy some for your own personal use. The notecards are being sold for \$3.25 for a packet of five cards with envelopes. They may be ordered from:

Lee Ellis  
5231 NE 184th Street  
Seattle, Washington 98155

The cards may be picked up at that address or at any Central Puget Sound function, or may be mailed.

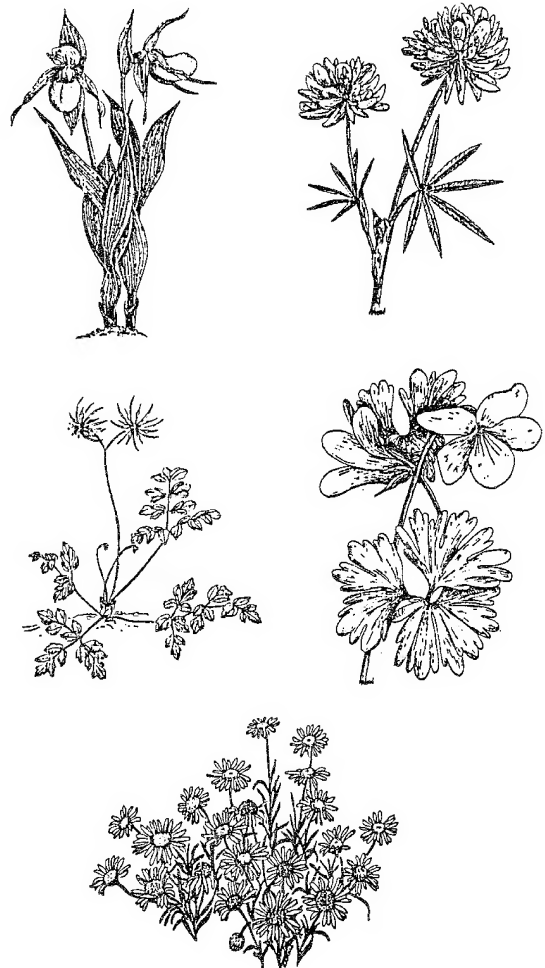
We will have to charge postage/packaging for cards to be mailed. Current costs are:

\$ .64 for one pkg cards  
.98 for two  
1.32 for three  
1.66 for four

(Rates for larger quantities on request)

Thus, if you wish to order three packets of notecards, the cost would be 3 x \$3.25 plus \$1.32, or a total of \$11.07. Mailing costs are high, therefore it would be best if a number of people ordered together so that a parcel could mail at a cheaper parcel post rate. Small quantities cannot be mailed parcel post.

Below are reduced illustrations of the notecard drawings.



By now you should have received a packet of information about the annual meeting if you registered and sent a check. It will include a banquet ticket (if you signed up for this), a name tag, and any up-to-date change in plans for field trips. If you haven't signed up for the banquet yet, you can do so up to May 2nd--call Virginia Diegel, 645-1344, or if you have not received your ticket, also call her or write to 16415 N.W.Brugger Rd., Portland 97229.

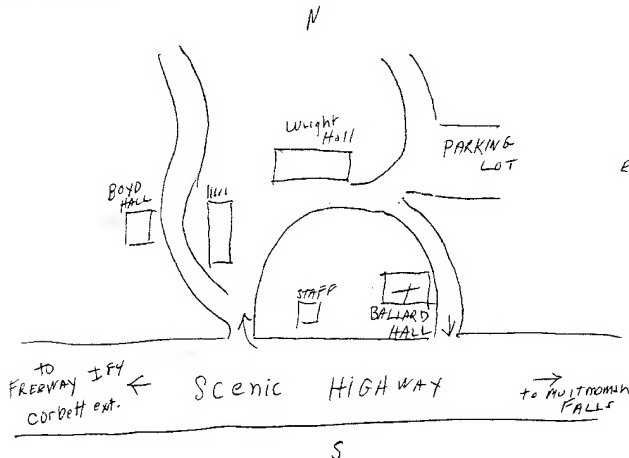
Friday overnigheters at Menucha may sign in there after 5:00 p.m. Friday; Saturday overnigheters may sign in anytime after 11:00 a.m. Saturday and/or after field trip late afternoon. Breakfasts are at 8:00 a.m. Maps were in April bulletin. Detailed one of Menucha layout was upside down (whoops!--Jane Armentrout caught that one). The Center is to the North of the Scenic Highway.

Lois Kemp announces that meeting time for field trips will be 9:00 a.m. Saturday at the Women's Forum State Park on the old Scenic Highway just west of Crown Point and a few miles East of Menucha.

Two field trips scheduled for Saturday are: Angel's Rest, 4 miles round trip, 1,500 elevation gain, but not steep and will be led by Dave Dobak and Jan Anderson. Slightly longer but with the same elevation gain will be on the Washington side to Hamilton Mt. and is a 6-mile round trip, led by Lois. Second meeting place for this trip will be at 9:45 a.m. at the North end of the Bridge of the Gods.

Lois has volunteered to lead a Sunday trip to the East end of the Gorge if there is enough interest. Announcement of this will be at the banquet Saturday evening.

DON'T FORGET TO BRING YOUR OWN BEDDING, BANQUET TICKET AND NAME TAGS WHEN YOU LEAVE HOME.



BOARD MEETING COMING!  
SUNDAY MORNING, 9:30 AM, MAY 10,  
MENCHUA RETREAT CENTER, COLUMBIA GORGE

Dear Board Members, Chapter Presidents, Committee Chairs, Newly-Elected Officers, and NPSO Members,

First let me express my thanks to those NPSO members who ran for offices and board positions this year. I have not yet heard the results of our elections, however, I want personally to thank each person who was willing to serve our Society in a state position.

Also, I wish sincerely to thank those who are retiring from Board positions and officerships. No one knows better than I how much volunteer time goes into keeping our society running smoothly, and I very much appreciate the splendid help I have had from all of you this year.

The Board Meeting in connection with our Annual Meeting will take place Sunday morning, May 10, 9:30 am at the Menucha Retreat Center, Ballard Hall, Columbia Gorge. (Please refer to the map in your Bulletin to find the Lodge.) New officers and board members will be installed the evening before at the Annual Meeting Dinner at Multnomah Falls Lodge. Our newly-elected President will preside at the Sunday morning board meeting, however, I plan to mail agendas to all board members a week before the meeting.

If you have important agenda items that you think I may have overlooked, please GIVE ME A CALL AS SOON AS YOU READ THIS BULLETIN. I will need to have the agenda typed and copied and hope to have copies in the mail to you by May 4.

I look forward to seeing as many of you as possible in the Gorge the weekend of May 9 and 10. Please show support for our new officers by attending the Sunday morning board meeting. My number for those agenda items is 345-6241. Rhoda Love, retiring President.

## WELCOME NEW MEMBERS

BLUE MOUNTAIN  
Julie Goldman

CORVALLIS  
Robert Meinke

EMERALD  
Mary Jane Moffat

MID COLUMBIA  
Robin Dobson  
Laurie Smith

NORTH COAST  
Clara Fairfield  
Candice Guth

PORTLAND  
Loraine Newall  
Kimberly St.Hilaire  
Marsha Takayanagi  
Jim & June Vahey

SISKIYOU  
Beth Hoffman  
Al & Bonnie Mercer  
W.D. Patterson  
Dorie Perkins

WILLAMETTE VALLEY  
Bill Dukes  
Kay Hanville  
Dale Shank  
Mary Ann Westfall



The above title does not refer to a magic act nor to an extinction event. It was chosen as a novel heading under which to discuss a botanical "disappearance" that may result from some recent taxonomic research on a pair of familiar Oregon plants of the family Liliaceae--*Smilacina* and *Maianthemum*. As a rule, research activity in taxonomy is aimed at improving our knowledge of the relationships among plant species. It frequently involves reexamining long-held ideas and assumptions, using new data based on nontraditional methods of analysis. In the case of *Smilacina* and *Maianthemum*, what is being reexamined is the presently accepted classification that makes them two separate genera.

In every reference book for the Pacific Coast flora, you will find the genus *Smilacina* (False Solomon's Seal) with two species in Oregon, and the genus *Maianthemum* (False Lily-of-the-Valley) with one species. Why should this classification be questioned? Like a lawyer reopening an old court case, a botanist at Harvard University recently took a new look at these plants and said, in effect, "I disagree; in my view, the facts argue in favor of a merger. These two genera should be combined into a single genus, *Maianthemum*." To judge the merits of the case, we need to review the evidence and determine for ourselves whether to make the genus *Smilacina* "disappear."

*Maianthemum* has a widespread distribution in North America, Europe, and eastern Asia; *Smilacina* is in eastern Asia, North America, and the mountains of Central America. In the Pacific Northwest the two "genera" display their most extreme differences. *Maianthemum* has only a few leaves per plant and these are deeply cordate; its flowers have four perianth parts, four stamens, and a two-chambered ovary. *Smilacina* has more numerous leaves which are sessile on the stem; its flowers have six tepals, six stamens, and a three-chambered ovary. Dr. James LaFrankie, the taxonomist who is

proposing to merge these genera, points out that the eastern North American species *Smilacina trifolia* (see illustration) has only 2-4 leaves per stem. The leaves of *Maianthemum canadense* are shallowly cordate at best and are nearly sessile. When the two genera are viewed together over their total geographical range, it seems that the only consistent difference between them is the 2-merous versus 3-merous flowers.

Dr. LaFrankie goes further in his analysis by listing a series of traits that are shared by *Maianthemum* and *Smilacina*, which differentiate them from other related genera of Liliaceae. For example, they have unbranched stems, rather than the branching stems of *Disporum* and *Streptopus*. They have nectaries on the pistil instead of on the tepals, as in these latter two genera. Their immature fruits are spotted with red instead of being solid green as in *Polygonatum*, *Clintonia*, and other genera. Finally, he gives particularly strong weight to a genetic similarity between *Maianthemum* and *Smilacina*, which is that their chromosomes are the same number and shape, but are different in these respects from all other Lily Family genera.

In the future, if the proposal to unite these two genera comes to be widely accepted, the names of our two Oregon *Smilacina* species will change to *Maianthemum racemosum* (L.) Link. and *Maianthemum stellatum* (L.) Link. Both these species were first described by Carl Linnaeus ("L." in the above abbreviation), and placed in *Maianthemum* by the German botanist Johann Link in 1821. From the date of Link's work, you can see that LaFrankie's suggestion is not a new one. Perhaps sometimes science can advance by taking a new look at some old ideas, to see whether our predecessors might have been right after all.

Kenton L. Chambers  
Oregon State University



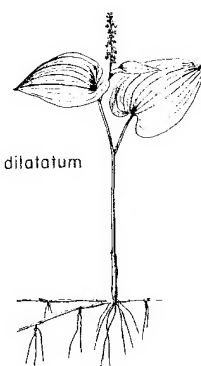
*Smilacina trifolia*,  
courtesy of New  
York Botanical Garden



*Smilacina racemosa*



*Smilacina stellata*



*Maianthemum dilatatum*

(reproduced from Hitchcock et al., *Flora of the Pacific Northwest*, with permission from the publisher)

by Stuart Garrett, High Desert Chapter

Professor John S. Newberry left his mark on Oregon. The largest volcano in the state is named for this 19th century physician-naturalist. His ideas on glaciers, mountain ranges, plant geography and erosion were groundbreaking ones. But in spite of this, he seems to be a forgotten man in Oregon history.

Born in Connecticut in 1822, he moved to northern Ohio at an early age. The son of a coal mine owner, Newberry became interested in fossils in his youth. As a teenager he became acquainted with Professor James Hall, a prominent geologist, who was also a family friend. Hall was later to assist him in his scientific career. Newberry graduated from Case Western Reserve University and attended the Cleveland Medical College. He spent 2 years studying medicine in Paris. After returning to the United States, he began medical practice in Ohio; but after 5 years he apparently decided to change careers.

The United States had become fascinated with the idea of a transcontinental railroad. Congress authorized a series of railroad surveys to be conducted by the Topographical Corps of the Army. These were meant to determine the best route to the West Coast. It was through his mentor, Professor Hall, that Newberry was named the scientist on the Williamson-Abbott Survey in 1855. This group of the Topographical Corps traveled from the San Francisco area to the Columbia River surveying routes both east and west of the Cascade Mountains. Newberry served as geologist and botanist for the 28 man party.

Oregon was not yet a state and the area was little known to the rest of the country in any scientific sense. The expedition was a hard and dangerous one. The country that they traveled was unmapped. The co-leader, Lt. Williamson, had seen his own commander, Capt. Warner, killed by Paiute Indians on an 1849 trip in Northern California. Only 2 years before, Lt. Gunnison had been slain by Indians under similar circumstances. Indeed, a general Indian war broke out during the latter part of the expedition. The party included Lt. Crook and Lt. Sheridan, both of whom later went on to prominence in the Army during the Civil War.

The group left the Bay area in May 1855 and entered Oregon south of Klamath Falls in August. They proceeded north along the Klamath Lake into the upper Deschutes River drainage by September. Along the route the 33 year old Dr. Newberry made many geologic, botanical and zoologic observations.

As the expedition traveled north, their course took them through the Metolius River area. The first descriptions of Black Butte and the Hoodoos on the Metolius River were from this portion of the survey. The group then traveled to the area of Cove Palisades and on to what is now the Warm Springs Reservation. They crossed the Cascades just south of Mt. Hood via a new route. In a little-recognized act of heroism, an Indian youth guided the party over the mountains through a previously untravelled route. This occurred during the middle of an Indian



JOHN STRONG NEWBERRY

uprising, and he took his life in his hands to accompany the expedition. The party then made their way south through the Willamette Valley and returned to the Bay area in January of 1856.

During this expedition Newberry was the first scientist to link the coast ranges of California and Oregon in a geologic and geographic sense. His were the first observations of glacial actions in the Cascade Mountains and he noted the "drowned forest" in the Columbia River Gorge, first seen by Lewis and Clark. Newberry sent his botanical specimens to Harvard University where Dr. Asa Gray named Newberry's gentian (*Gentiana newberryi*) and Newberry's figwort (*Penstemon newberryi*) for the explorer. Some consider these to be two of the prettiest wildflowers of the Cascade Range.



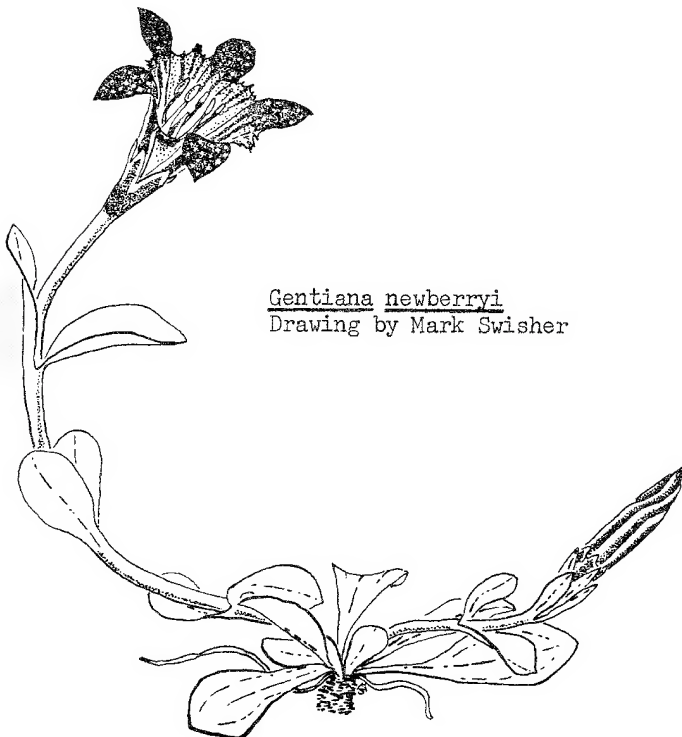
Newberry wrote the botanical, geologic and zoologic parts of Volume 6 of the Pacific Railroad Reports. They are well written and continue to be worthwhile reading. The 1855 Williamson-Abbott Survey was part of the final phase of the Pacific Railroad Survey. It strengthened the position of San Francisco as the western terminus for the Trans-continental Railroad.

Two years later Newberry participated in the Ives Expedition in the Southwest. This was partly an effort by the U.S. Government to map routes into the Mormon country in preparation for a possible war against Brigham Young and his followers. This trip made Newberry the first geologist to see and describe the Grand Canyon.

In 1866 he accepted a full professorship of geology at Columbia University. He served as president of the American Association for Advancement of Science in 1867, helped establish the U.S. Geologic Survey, served as president of the Geological Society of America, was chief of the Ohio Geologic Survey, and had numerous other honors. He died in 1892 in New Haven, Connecticut. As Goetzmann has pointed out, "Of Newberry it might be said that more than any other scientist since Fremont, he had opened up the new and unknown country to the civilized world".

Although there is no biography of John Strong Newberry, recommended further reading is the Army Exploration of the American West by William Goetzmann, University of Nebraska Press, and the Pacific Railroad Survey, Volume 6, published in 1857, U.S. Government Printing Office.

(This article was previously published in the December, 1985, issue of The Oregonian.)



Gentiana newberryi  
Drawing by Mark Swisher

## ALERT TO GARDENERS

Spring is glorious -- especially the bulbs that bloom in our gardens. However, a cloud hangs over the splendid display -- the threat of extinction. Preliminary information indicates that some of the original, wild species of tulips, daffodils and many other bulbs could, under current market pressures, disappear forever.

Americans plant over a billion bulbs each year. Most of these are hybrids produced in nurseries, especially by that amazing country, The Netherlands. If the flowers that attract you have such popular common names as Baby Moon or Shot Silk, or are identified as hybrids, you should feel free to buy them. However, please be careful about bulbs labelled as "wild", "species", or "botanicals", and many of the small, early-blooming types. These may have been collected from the wild in Turkey, Spain, South Africa, Central Asia, or even the United States.

Surprising as it seems, some of the bulbs most commonly offered for sale may have been wild-collected, despite the availability of propagated plants. Snowdrops (Galanthus spp.) is one such type; Turkey exported 28 million of them in 1983, France another 10 million. Turkey also exported between 10 and 13 million winter aconite (Eranthis hymenalis) and unknown numbers of grape hyacinth (Muscari spp.) and Crocus species. In 1986, Turkey exported at least 1 million Cyclamen tubers.

Even the crown imperial, Fritillaria imperialis, is still collected in Turkey, despite its widespread availability from propagation.

Other types of bulbs that are collected from the wild formerly were sought primarily by specialists, but now are entering the general market. Old favorites, such as Narcissus species triandrus albus, 'Angel's Tears', endangered now through over-collection, are still sold. Unknown numbers of Narcissus are being collected in Spain and Portugal; Turkey exports perhaps 500,000 bulbs each year.

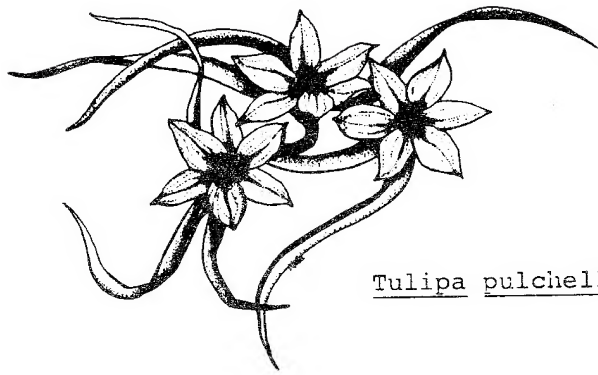
Collecting is not limited to the Mediterranean region. The trout lily, or dog-tooth violet, Erythronium americanum, is collected from its habitat in eastern North America, then offered for sale "direct from the (Dutch) grower"!

We do not yet know which species are being forced to the brink of extinction by this trade. However, botanists in Turkey have expressed concern about the trade in snowdrops, giant summer snowflake (Leucojum aestivum), the sea daffodil (Pancratium maritimum), two species of Sternbergia, crown imperial, Lilium candidum, and Tulipa pulchella humilis. British botanists are concerned about these and several other species, including Cyclamen and the winter aconite.

Several species of tulip are threatened in their native habitats in Central Asia and the Caucasus Mountains. Included are Tulipa dasystemon, T. tarda, and T. schrenkii. We do not know whether the specimens of these and other tulip species

Continued on page 54





Tulipa pulchella humilis

sold in the United States are of wild or propagated origin.

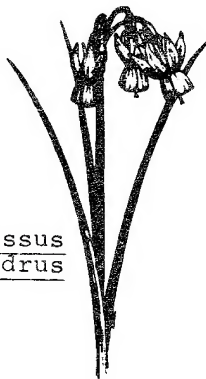
Gardeners who wish to avoid purchasing wild-dug plants face a challenge. Virtually none of the catalogs identifies whether the bulbs offered for sale are of wild or propagated origin. Statements that bulbs are "Direct from Holland" are no guarantee of propagation, for that country re-exports wild-dug plants as well as propagates. The cautious buyer must inquire about the origin of each type of bulb that he or she is considering. We suggest that you ask, "Did you propagate these bulbs in your nursery from seeds or offshoots? If you obtained these bulbs from a supplier, do you know that the supplier propagated them?" If the dealer evades the question or cannot answer to your satisfaction, you may wish to avoid purchasing that species from that dealer.

Natural Resources Defense Council continues to study the trade in wild bulbs. Your comments are welcome. NRDC is a non-profit membership organization dedicated to securing a safer and healthier environment through scientific research and legal action.

Prepared by Faith T. Campbell  
Plant Conservation Project  
Natural Resources Defense Council  
1350 New York Avenue, N.W.  
Washington, D.C. 20005



Galanthus elwesii



Narcissus triandrus

#### A SUGGESTION FROM A MEMBER

Your County Extension Office is an excellent source of information of interest or use to NPSO members. There is a Publications list available printed by Oregon State University Extension Service and the Agricultural Experiment Station. The pamphlets are free or available at minimal charge. The following are some samples from the 33 - page Publication List:

EC 1123 Endangered and Threatened Species: The What, Where, and Why (50¢) is a comprehensive 3 page bulletin which explains the process of how species attain federal listing.

EC 801 Poisonous Plants Encountered in Oregon (25¢), a 4 page bulletin listing common and botanical names, degree of toxicity, part of the plant that is toxic.

TB 147 Ecology and Plant Communities of the Riparian Area Associated with Catherine Creek in Northeastern Oregon (free).

EB 785 Ferns to Know in Oregon (50¢).

#### IMPORTANT ADDRESSES

Senator Mark Hatfield and  
Senator Bob Packwood  
Senate Office Building  
Washington, D.C. 20510

Congressman Les AuCoin (1st Dist.)  
Congressman Bob Smith (2nd Dist.)  
Congressman Ron Wyden (3rd Dist.)  
Congressman Peter DeFazio (4th Dist.)  
or  
Congressman Denny Smith (5th Dist.)  
House Office Building  
Washington, D.C. 20515

#### NATURAL HISTORY & LLAMA TREK IN OREGON'S HIGH DESERT

The Oregon Natural Resources Council is sponsoring a llama trek and natural history tour of Malheur Wildlife Refuge and nearby Steens Mountain, June 16-20, 1987.

The cost of the five day trip is \$375. All meals and lodgings are included. Proceeds from the Llama Trek will benefit ONRC's Southeast Field Coordinator, Don Tryon. For more information and reservations contact ONRC's Main Office at 1161 Lincoln Street, Eugene, OR 97401 (503) 344-0675.

#### STATE COMMITTEE CHAIRS

NPSO Wildflower Poster & Pins . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR, 97040; 478-3576

Notecards . . . . . George Lewis  
8230 SW Cashmur Lane, Portland, OR, 97225; 292-0415

T-Shirts . . . . . Evelyn Everett  
4135 Alder St., Eugene, OR, 97405; 345-1746

# STATE OFFICERS

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Vice President . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR, 97040; 478-3576  
Secretary . . . . . Florence Ebeling  
7725 SW 82nd Ave., Portland, OR, 97223; 244-4122  
Treasurer . . . . . Marjorie Ettinger  
63820 Quail Haven, Bend, OR, 97701; 382-2255  
Directors . . . Don Eastman, Julie Kierstead, Dan Luoma  
Carolyn Wright, Don Barr, Barbara Fox  
R/E Chair . . . . . Jean Siddall  
535 Atwater Rd., Lake Oswego, OR, 97034; 636-4633  
Conservation Chair . . . . . Julie Kierstead  
11505 SW Summerville, Portland, OR, 97219; 636-4112  
Legislative Chair . . . . . Esther McEvoy  
3290 SW Willamette, Corvallis, OR, 97333; 754-0893  
Desert Wilderness Coordinator . . . . . Julie Kierstead  
11505 SW Summerville, Portland, OR, 97219; 636-4112

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Wm. Cusick (LaGrande area) . . . . . Rachel Sines  
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## MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
Membership in the Native Plant Society of Oregon is open  
to all. Membership applications & changes of address  
(including old address & zip code) should be sent to the  
membership chair.

## BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
the 10th of the month & should be sent to the editor.  
News, articles, photos, drawings, & non-copyrighted  
materials are welcomed.

## GUIDELINES FOR CONTRIBUTORS

*The Bulletin is not typeset; therefore typed, camera-ready copy is much appreciated. But no submission will be rejected because it is not typed. Please proofread & check facts.*  
**DEADLINE:** 10th of each month  
**FORMAT:** Copy should be typed in 4 1/4 inch wide columns, of any length. Author's name & chapter affiliation (or other organization) are typed at the end of the article. There is no standard paragraph treatment; one of these is suggested:

- \* for long articles, double space between paragraphs, but do not indent the first word of the paragraph
  - \* for short articles or short paragraphs, when double spacing looks odd, indent the first word of the paragraph instead
- Type your own headline, centered, all caps. In case of special formats, e.g. plant keys, you are free to choose the layout.
- CREDITS:** For each submission, provide
- \* title
  - \* author--specify whether byline is desired for news items
  - \* instructions as to whether item is to be used in entirety or excerpted at editor's discretion
  - \* source & date if item is not original

**ILLUSTRATIONS:** black & white prints, ink drawings, woodcuts, halftones, et al. We welcome small doodles as well as larger efforts. Please give source & date, if not original.

**SCIENTIFIC NAMES** should follow Hitchcock & Cronquist's *Flora of the Pacific Northwest* where possible. Use of both scientific & common names is encouraged. Genus & species names are underlined or italicized.

**RETURN OF ORIGINALS:** Manuscripts & illustrations will not be returned unless it is requested.

*The Bulletin is published as a service to NPSO members & the public. Your suggestions & comments are always welcome.*

# # #

## NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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\* **DUES** include monthly news bulletin. Full membership runs from January through December. Quarter membership runs from September through December.

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## \*CONTRIBUTIONS:

Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_

Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

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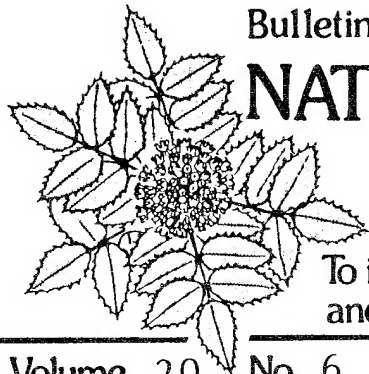


Native Plant Society of Oregon  
1960 NW Lovejoy #2  
Portland, OR 97209

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To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 6

June 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

- 20 June, Sat. Field Trip to BALD MOUNTAIN. Meet at 8:30am at BMCC Greenhouse or at 9:45am at the intersection by Langdon Lake in Tollgate. Leader: Ruth Rouse.
- 11 July, Sat. Field Trip to MT. HOWARD at Wallowa Lake. Bring lunch and money for gondola ride and meet at BMCC Greenhouse at 7:00am or at the Safeway parking lot in LaGrande at 8:15am. Leader: Bruce Barnes.

### Corvallis

- 6 June, Sat. Field Trip to MARY'S PEAK. Leader: Esther McEvoy (754-0893).
- 15 June, Mon. Meeting, 7:30pm. Room 2089 Cordley Hall, OSU Campus. Field trip preview slides of Iron Mountain flora by Henny Chambers and Bob Ross.
- 20 June, Sat. Field Trip to IRON MOUNTAIN-CONE PEAK area. Leader: Dan Luoma (758-8063).

### Emerald

- 6 June, Sat. Field Trip to BIG RIVER OLD GROWTH PRESERVE, south of Cottage Grove. Meet at 10:00am at the Lane Community College south parking lot, adjacent to the Science Building or at the intersection of Big River Road and Stennett Butte Road near the site at 10:45am. Directions to Big River are printed in the April issue of the Bulletin.
- 8 June, Mon. Meeting, 8:00pm. Amazon Community Center, 2700 Hilyard, Eugene. Ed Alverson of the OSU Botany Dept. will give a slide show and talk on the vegetation of Thurston County, Washington, with comparisons to our local Willamette Valley flora.

### High Desert

- All field trips leave from the parking lot behind MacDonald's Restaurant, 2048 NE 3rd, Bend, at 9:00am. Carpools are encouraged. Bring a backpack lunch. Non-members are welcome. For more information call Stu Garrett (382-2681).
- 6 June, Sat. Field Trip to POWELL BUTTE. A moderate 4 mile hike with great views in BLM administered area. Leader: Stu Garrett (382-2681).
- 27 June, Sat. Field Trip to OCHOCO BIG SUMMIT PRAIRIE. Emphasis on riparian areas with an expert from USFS. Leader: Bud Kovalchik.
- 18 July, Sat. Field Trip to CONE PEAK-IRON MOUNTAIN, one of the classic Cascade wildflower displays. Moderate to strenuous 6 mile hike. Leader: Stu Garrett (382-2681).
- 22 Aug. Sat. Field Trip to BROKEN TOP. Spectacular alpine wildflowers and geology. Moderate 5 mile hike. Leader: Stu Garrett.

## Mid Columbia

3 June, Wed.

Meeting, 7:30pm at Pietro's Pizza Place, 3320 W. 6th St. in The Dalles. The program will be FAVORITE LOCAL WILDFLOWERS from the private collection of slides of Janice Merz. Come earlier and join us for pizza. Any puzzling species? Bring a sample for identification help.

## North Coast

4 June, Thurs.

Meeting, 7:30pm. at the Tillamook PUD Building. Election of officers will take place. Slate of nominees is: Pres. Clara Fairfield, Vice Pres. Greg Cline, Sec./Treas. Jean Cline. Nominations from the floor will be accepted at the meeting.

## Portland

Reminder: When carpooling on field trips, riders should pay the driver some reimbursement for gas expenses. The suggested amount has been 4¢ per mile.

6 June, Sat.

Field Trip: driving trip in the COAST RANGE. Leave OMSI at 8:00am. Meet leader at 9:00am at intersection of Wilson River Road and Forest Grove Rd., Highways 6 & 8. Leader: Helen Moenke (324-7822).

6 - 10 June

Float Trip on Grande Ronde River to Snake River, 4 days. Leader: Charlene Holzwarth (284-3444).

9 June, Tues.

Meeting, 7:00pm. First United Methodist Church, 1838 SW Jefferson St., Portland. SCENES OF HIGH DESERT MUSEUM will be shown by Jim Crowell.

12 June, Fri.

Setting up for the Flowers in the Forest Show, afternoon and evening, pot luck about 6pm. Any last minute quandries or offers of help, call Jeanne Huffstetter (244-8224), Florence Ebeling (244-4122) or Louise Godfrey (223-4785).

13 & 14 June

FLOWERS IN THE FOREST. 10am to 5pm at the World Forestry Center, 4033 SW Canyon Road. (MTC admission \$1.50, seniors or those under 18 yrs. 75¢). Early summer flowers of the coast, both sides of the Cascades, the Columbia Gorge, central Oregon displayed in habitat groupings. "Talk up" our show to your friends!

13 June, Sat.

Field Trip for Annual Gorge Hiking Weekend to HERMAN CREEK. Ten miles round trip with 2000 ft. elevation gain. Meet at K-Mart at NE 122nd and Sandy at 7:45am. Leader: Dave Dobak (643-2213).

14 June, Sun.

Field Trip for Annual Gorge Hiking Weekend to MULTNOMAH BOG. Two miles round trip with a 300 ft. elevation gain. Be prepared for wet feet. Meet at Dept. of Motor Vehicles Office, NE 60th and Glisan at 9:00 am. Leader: Dave Dobak (643-2213).

20 June, Sat.

Field Trip to Glenwood area bird refuge, 25 miles north of White Salmon. Leave K-Mart (south end of parking lot) on 122nd and Sandy at 8:00am. Meet the leaders at 9:00am at Bridge Mart, White Salmon. Bring binoculars, birdbooks, wildflower books, lunch, appropriate clothing. Leaders: Stuart & Mildred Chapin (509 493-2823).

27 June, Sat.

Field Trip to BULL OF THE WOODS LOOKOUT and down to PANSY BASIN. Car shuttle. Meet at Estacada USFS Ranger Station at 9:00am with full gasoline tanks. Leader: Charlene Holzwarth (284-3444).

3,4,&5 July

Field Trip to the WALLOWAS, EAGLE CAP WILDERNESS. Friday - Mt. Howard Tramway; Saturday - Hurricane Creek area; Sunday - Ice Lake Trail as time permits. Special invitation to Wm. Cusick and Blue Mountain friends to join us. Camps at Hurricane Creek, Falls Creek, Wallowa Lake. Motels at Joseph (Mountain View Motel & Tr.Pk., Rt. 1, Joseph 97846; 432-2982); Minam St. Park, no electricity; Wilderness Inn, Enterprise, 426-4535; Mingo Motel, Wallowa, 886-2021; Minam Motel, 437-4475 (no restaurant). Leader: Charlene Holzwarth (284-3444).

11 July, Sat.

Field Trip on PACIFIC CREST TRAIL #2000, west from Lolo Pass Road. Leader: Charlene Holzwarth (284-3444).

## Siskiyou

- 6 June, Sat. Field Trip to SODA MOUNTAIN PROPOSED WILDERNESS AREA. Explore the Pacific Crest Trail and Lone Pine Ridge; great views and wildflowers. Meet at Ashland Bi-Mart at 9:00am. Leader: Juniper Brock (482-4357).
- 11 June, Thurs. Meeting, 7:30pm. Room 171 Science Building, SOSOC. Art Bernstein, author of Trees of Southern Oregon, will give a slide presentation on local trees.
- 13 June, Sat. Field Trip to GREENSPRINGS TO HOBART BLUFF. A real mosaic of plant habitats, some in the Soda Mtn. Wilderness Proposal. Eight miles of hiking with grades, shorter options. Meet at Ashland Bi-Mart at 9:00am. Leader: Diane Meyer (482-2263).
- 20 June, Sat. LICHEN IDENTIFICATION WORKSHOP. A short field trip near Ashland to see lichen species in their natural habitats. Followed by a lab experience to identify what we find in the morning. Meet in the parking lot below the Science Building at SOSOC at 10:00am. Leader: Jan Larson (482-4513).
- 12 July, Sun. Field Trip to WHITE MOUNTAIN VIA TINCUP TRAIL. A remote, roadless section of the Siskiyou Crest. High elevation peridotite species. About 8 miles round trip with grades and some cross-country scrambling. Meet at Ashland Bi-Mart at 8:00am., Medford K-Mart at 8:30am. Leader: Larry Loftis (535-3053).

## Willamette Valley

- 5 June, Fri. Workshop: GRASSES UP CLOSE, for all who fear grasses. Lois Kemp and Peter Zika teach recognition of the parts of grasses in the laboratory at Willamette University, Collins Hall, Rm. 118, 7:30pm to 8:30pm. Bring hand lens. Optional: handouts from last year's grass class and Hitchcock.
- 6 June, Sat. Workshop: GRASSES IN THE FIELD. Lois Kemp and Peter Zika teach recognition of the genera in the Salem vicinity, 9:00am to 1:00pm, rain or shine. Meet at South K-Mart parking lot at Mission St. and Airport Rd.
- 7 June, Sun. Field Trip to SLIDING ROCK TRAIL. Carpool at 8:00am at South Salem K-Mart parking lot or Dallas City Library at 9:00am. 90% easy trail. Leader: Clint Urey (743-2802).
- 13 June, Sat. COLUMBIA GORGE DAY. twelve separate hikes. Ask at Salem Public Library. For McCord Creek Falls easy hike, carpool at 8:00am S.Salem K-Mart or meet leader at 10:00am, at Yeon State Park, exit #35 off I-84. Leader: Cheryl Walters (228-1367). Coordinator: Clint Urey (743-2802).
- 20 June, Sat. Field Trip to TRIANGULATION PEAK. Carpool at 7:30am at S.Salem K-Mart. Leader: Frances Schaeffer (393-7492).
- 27 June, Sat. Field Trip to PAMELIA LAKE (tentative). Carpool at 8:00am at Ginger Bread House, Mehama. Leaders: George & Harriet Schoppert (859-2613).

## Wm. Cusick

- - - - -

For information, contact Rachel Sines (963-0674).

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### LEGISLATIVE FUND DONATIONS

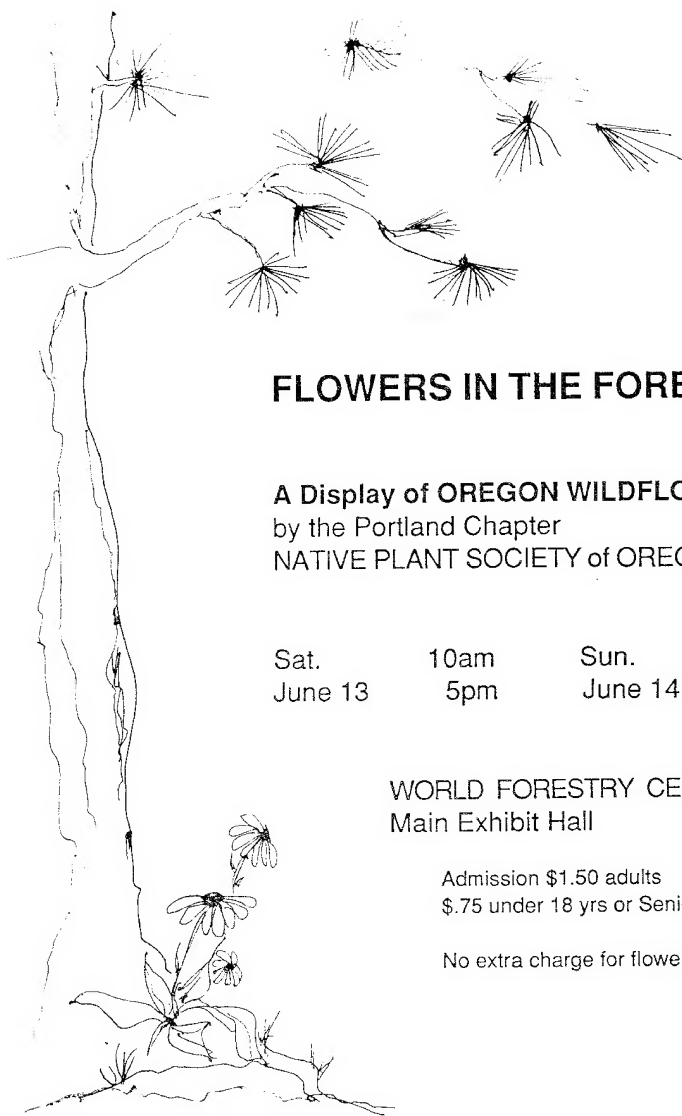
Any new donations to the NPSO Legislative Fund for SB 533 should be made out to the Oregon Natural Resources Council, not to NPSO. This is because we have reached the legal limit on the amount that NPSO can spend on legislative work as an organization. The address of ONRC is 1161 Lincoln Street, Eugene, Oregon 97401.

### FIELD TRIP REPORTS

A number of NPSO members have indicated an interest in reading about the field trips that the various chapters participate in during the year. Would someone from each chapter be willing to send in to the Editor of the Bulletin short articles about your trips? They could be in the form of summaries or highlights or longer versions if you like.

State Membership chairman requests that a membership blank be completed and submitted with any request for new or renewing memberships. Sending just a check will delay the registration of the membership in the files, and leaves much to guess-work on the part of the membership chairman.





## FLOWERS IN THE FOREST

A Display of OREGON WILDFLOWERS  
by the Portland Chapter  
NATIVE PLANT SOCIETY of OREGON

Sat. 10am Sun.  
June 13 5pm June 14

WORLD FORESTRY CENTER  
Main Exhibit Hall

Admission \$1.50 adults  
\$.75 under 18 yrs or Senior

No extra charge for flower show

### THE JESUP COLLECTION OF WOODS

When visiting the World Forestry Center in Portland to see the NPSO Flower Show in June, don't miss the outstanding "Jesup Collection of Woods of the United States of America" display upstairs. Approximately 500 species of trees, some in massive form, represent the North American woods. The collection, now more than one hundred years old, has preserved samples that in their own environment would have long ago disappeared.

For each species a five foot section of the trunk with bark intact was obtained and cut to show a cross, longitudinal and oblique section of the wood. The collection includes representatives of every significant tree type north of the Mexican border.

### LEGISLATIVE BILL INFORMATION NUMBER

1-800-332-2313

### CHAPTERS ELECT NEW OFFICERS

#### Corvallis:

President: Tom Kaye  
VicePresident: Phil Hays  
Secretary: Beverly Clark  
Treasurer: Lynette Dillon

#### Portland:

President: Herb Armentrout  
VicePresidents: Lois Kemp (Programs)  
Charlene Holzwarth (Field Trips)  
Secretary: Maxine Wilson  
Treasurer: Ruth Oliver

#### Willamette Valley:

President: Pat Rogers-Rochna  
VicePresident: Margie Willis  
Secretary: Claire Carder  
Treasurer: Harry Demaray

### BLM AWARDS NPSO

On May 8, 1987, the State Office of the Bureau of Land Management presented NPSO a "Volunteers for the Public Lands" Award. This is a national award for our volunteer work during the summer of 1986 on BLM lands in the Burns District. Our award is one of 61 given nationwide, and recognizes the work of the NPSO Grants Committee and the four researchers for work on BLM desert wilderness lands and Research Natural Areas. The recipients of the award are Barbara Fox, Chairperson, and researchers Lois Kemp, Peter Zika, Dave Gross and Carolyn Wright. We appreciate the work and cooperation of Cheryl McCaffery, Zone Botanist, of the Burns BLM District.

### MEMBERSHIP REPORT

#### NATIVE PLANT SOCIETY OF OREGON

MAY 8, 1987

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Willamette Valley .....	58
William Cusick .....	9

TOTAL MEMBERSHIP

517

SOME NATIVE PLANT SOCIETY TRIPS FOR THE SEVENTH ANNUAL  
COLUMBIA GORGE HIKING WEEKEND

June 13, Sat. TOM MCCALL PRESERVE

A short walk on the Rowena Plateau offering panoramic views of the east end of the Gorge and meadows of wildflowers. Led by Keith Chamberlain of the Mid Columbia Chapter of NPSO (503-478-3314). Meet at 8:30am at Lloyd Center parking lot, NE 16th and Clackamas Sts. for carpooling. Or meet the leader at 10:00am at Rowena Crest Overlook (Mosier exit 69 off I-84, then east on Hwy. 30 for 6.6 miles).

June 13, Sat. HERMAN CREEK

Trail leads deep into lush forest, past side streams, waterfalls and sunny hillsides. Hike 10 miles with 2000 ft. elevation gain. Led by Dave Dobak of the Portland Chapter of NPSO. (643-2213). Meet at 7:45am at the south end of the parking lot at the K-Mart on 122nd and Sandy.

June 14, Sun. SILVER STAR MOUNTAIN

A moderate hike of less than 5 miles total with two choices for enjoying this highpoint: the Indian Pits with Don or the Sturgeon Rock plant study with Ed. Led by Don Cannard (206 694-1648) and Ed Robertson (206 694-1648) of the Suksdorfia Chapter of the Native Plant Society of Washington. Meet at 8:00am at the Fort Vancouver Regional Library, Mill Plain Blvd. at Fort Vancouver Way in Vancouver.

June 14, Sun. MULTNOMAH BOG

Explore a meadow that lies just below the summit of Larch Mountain. Two miles round trip with a 300 feet elevation gain. Be prepared for wet feet. Led by Dave Dobak (643-2213) of NPSO. Meet at 9:00am at the Dept. of Transportation parking lot at NE 60th and Glisan.



Arching stalks of somnolent fiber  
Rays of light cast ever less obliquely  
Profound stirrings welling from within  
Rising tufts of freen  
Atop delicately drooping racemes of white  
Indian plum  
Irrepressible signal  
Of Spring's triumphant unfolding  
- Peter Kendall

(Illustration from Hitchcock et al., *Flora of the Pacific Northwest*; used with permission from the publisher)

WELCOME NEW MEMBERS

CORVALLIS

Gerry & Julie Barclay  
Dorothy Mathews  
OSU Kerr Library

EMERALD

Ada Brockett  
Jenny Dimling  
Forrest O'Farrell  
Ann Porterfield  
Freeman Rowe  
Daphne Stone

PORTLAND

Erma Engels  
Will Clinger  
Anne Hartheimer  
Patricia Justice  
Jefferson Kincaid  
John Kistler  
Dr. & Mrs. Edward Mulder  
Ralph Rogers  
Jill Schatz  
Robert Thompson  
G.J. Throop

HIGH DESERT

James Crocker  
Barbara & Roland Pitschel

SISKIYOU

Carol Harmount  
Rosemary Leen

MID COLUMBIA

Ray Hotka  
Ginny Irving  
Dorothy Leininger

WILLAMETTE VALLEY

Paula Brooks  
Gemini Cameron  
Tom & Linda Jenkins  
Elizabeth King  
Sharon Leopold  
Don Mason

NORTH COAST

John & Robyn Allen  
Hennie Wooldridge

LONG DRAW RNA UPDATE

Over the last weekend of April, 1987, we revisited Long Draw RNA, one of three RNA's we did floristic surveys in last year under a grant from NPSO (see the April Bulletin). The purpose of our latest trip was to see if there were any early blooming Spring plants we might have missed last year.

We were able to identify eight more plants, including one rare one, Cymopterus purpurascens. This plant is listed by the Oregon Natural Heritage Data Base as Taxa Threatened in Oregon But More Common Or Stable Elsewhere. Previous to our find at Long Draw the species was known from only one other site in Oregon, located about six miles to the southeast.

We also went to Mickey Basin RNA but didn't find any additional plants there.

After leaving Mickey we drove east looking for a place to camp. At 7:00 PM at a well at the base of the Sheephead Mountains we met a couple camped out, their three horses grazing in the corral. They asked for directions to Burns Junction. We more or less pointed east and said "ride into the sun in the morning and turn left at the pavement". We ended up talking with them for about half-an-hour and it turned out they were on their way from Sacramento, CA to North Dakota. On horseback. There are always surprises on the desert.

It appears that it is going to be a very dry year in Southeast Oregon. This lack of water will have an affect on the flora of the desert. Many annuals may not even try to come up but save their seed for a more favorable year. In retrospect, we don't think we would have come up with as complete a species list this year as last for the three RNA's we surveyed.

David Gross and Carolyn Wright, Mid-Columbia Chapter

It was 1978. Scott Sundberg and I were stumbling through a dense stand of Salix hookeriana and Pyrus fusca on Sutton Lake in coastal Lane County. We were searching for a Sphagnum mire that we never found. When squeezing through a tangle of branches, I came face to face with what I thought was the relatively common moss Climacium, and I collected a few plants. I thought no more about the specimen until I keyed it out two years later in Elva Lawton's Moss Flora of the Pacific Northwest. It wasn't Climacium at all, but Limbella fryei, cited in Lawton's key as "very rare," and in the description as "found once in Oregon, near the coast." It had been collected in Coos County by T.C. Frye in August 1922. Here was a plant that hadn't been seen since it first was collected 56 years ago!

The problem was intriguing. The 1922 collection was described in 1933 as a new species, Sciaromium fryei (Limbella is now the correct generic name). In her moss flora of 1971, Lawton stated that L. fryei was the same as L. tricastata, a species endemic to the Hawaiian archipelago. After careful study, including analysis of morphology, chromosomes, biochemistry and habitat, I was convinced that L. fryei was not the same as L. tricastata, but was a species endemic to the Pacific Northwest.

Where was the type locality for L. fryei, and did that population still exist? Several clues helped answer these questions. The original description of L. fryei, and the label of the type specimen used for the description, cited the type locality only as "Cape Arago, Oregon." Labels of two duplicates of the type specimen were considerably more informative: "Coos County, Cape Arago, 1-1.5 miles northeast of Charleston on east side of highway." One of these duplicates contained a map and note written by Frye in 1950. The map placed the type locality in the present community of Barview, along an approximately 1-km segment of Cape Arago Highway, with Fossil Point as the midpoint of the segment.

In his note, Frye stated that the "type spot is now the back yard of a house." It is not clear whether the population of Limbella still existed in 1950, or whether it had been destroyed by construction of the house. Elva Lawton could not recall with certainty whether Frye actually returned to Barview in 1950. In 1980, Dr. Lawton gave me additional details regarding the Barview locality:

In 1956 before we went on a collecting trip to Oregon Dr. Frye told me a little more about the place where he collected the moss. He said there was a grove of trees (a dozen or more, I think douglas fir), beyond and on the opposite side of the road from where he got the moss. I am

sure I found the place, the trees were larger than he had described as it was some years later. Some houses had been built in the area but there was plenty of undisturbed ground and a small stream. I hunted all over the area without finding the moss.

Having pinpointed the type locality at Barview, what was the habitat there like in 1922? T.C. Frye died in 1962, and it is unlikely that we will ever know the answer to this question. The best we can do is reconstruct the habitat from a few scanty clues.

Did the habitat at Barview differ from that at Sutton Lake? At Sutton Lake, a dense stand of mature Salix hookeriana and Pyrus fusca, with an understory of Carex obnupta, Lysichitum americanum and scattered Spiraea douglasii, had developed on a bed of waterlogged, fibrous peat at least 1 m in depth. Pools of water occurred here and there. Sand, gravel and rocks were absent.

The habitat at Barview was described only as "more or less wet pasture land," certainly not the same as that at Sutton Lake. Aside from this brief description, the only other evidence concerning habitat was some extraneous litter found in Frye's specimens. I compared this litter with that from my own collections from Sutton Lake, and found some important clues concerning habitat. Aside from numerous arthropods, cases of aquatic caddisfly larvae, small clams and snails, the material from Sutton Lake contained litter from all the dominant vascular plants of the habitat, giving a good profile of the vegetation type. Litter from the Barview collection, though scanty, included culms of grass, caddisfly cases and seeds of Rubus parviflorus.

Based on this evidence, the only similarity between the two habitats was the presence of Limbella and water. Water at Barview was evidenced by the presence of caddisfly cases and Frye's observation of "more or less wet pasture" even in the typically driest month of August. The remains of the caddisfly cases from Barview were constructed entirely of sand, supporting evidence for location of the type locality at that place. Barview is situated on a marine terrace composed of late Pleistocene beach and offshore deposits, mostly sand with some clay, gravel, peat layers and woody remains. The sandy soils of Oregon's marine terraces often develop iron-cemented hardpans, impeding drainage and forming vernal or perennial pools. Therefore there could have been both aquatic habitat for the caddisflies, and sand for their cases. In contrast, the caddisfly cases from Sutton Lake were composed entirely of plant remains, including leaves of Limbella, which correlates with the absence of sand at that site.

The evidence from the litter suggested that L.



fryei could occur in at least two very different habitats, one a closed, dense, swampy shrub-carr and the other a wet pasture. Because the Sutton Lake habitat is undisturbed, and because L. fryei appears to thrive there, it does not make sense that the moss would do equally well in an obviously disturbed pasture associated with seral species such as grass and thimbleberry. It is possible that the Barview site once may have been a shrub-carr that had been cleared prior to Frye's visit in 1922. Cultivation of L. fryei in a growth chamber, including survival of an electrical malfunction that raised the temperature from 18°C to 34°C for 12-18 hours (lethal for most aquatic bryophytes), indicated that the species is hardy. It is possible that Limbella could survive the radical change in light, temperature and humidity associated with sudden removal of overstory, as long as an adequate supply of water remained. Some mosses are known to be more resistant to such changes than are vascular plants.

Did Lawton search in the correct habitat in 1956, even though she may have found the type locality? If she thought that the Barview

plants really were the Hawaiian L. tricostata, perhaps this caused her to look in the wrong places. In her letter of 1980 she stated:

"Because the [Hawaiian] habitat had been described as often in streams with waterfalls etc. I thought that this was an entirely different habitat and not suitable for the moss, and that it might possibly have been introduced and then died out."

The Barview population remains lost. Scott Sundberg and I searched unsuccessfully for the plants twice in 1980, and I searched again in 1983. It was unclear which Douglas fir grove Lawton had referred to in her letter, as several such stands occurred along the west side of the highway in that vicinity. Most of the area was covered with housing or commercial developments, and the streams in the area had been impounded. There is no Pyrus-Salix shrub-carr at Barview, as there is at Sutton Lake. At the time we searched the area, a small stand of Salix hookeriana existed in the back yard of a house, but Limbella was not there. Because three individuals trained in bryology were unable to relocate the plants, there is a good chance that the Barview population of L. fryei is extinct.

Loss of the population at the type locality meant that it was critically important to find populations in addition to that at Sutton Lake. Did any such populations exist? In 1983 and 1984 I searched 43 additional sites, almost all Salix hookeriana-Pyrus fusca-Carex obnupta shrub-carrs, along 1600 km of coastline from southern British Columbia to northern California, without finding any additional populations of the moss. This means that the Sutton Lake population of L. fryei is the only living population known to exist in the world. Based on the evidence we have at hand, the moss Limbella fryei is a critically endangered species. It has been given List 1 status, threatened with extinction throughout its entire range, by the Oregon Natural Heritage Data Base. Given the fact that two populations have been documented, 80 km distant from one another, and that the moss flora of the Pacific Northwest is still poorly known, there is still hope that other populations will be discovered.

I think it is imperative that the Sutton Lake population be safeguarded, and have encouraged the Oregon Field Office of the Nature Conservancy to purchase the tract, or obtain a conservation easement for it. I hope sympathetic readers will express their concern to the Nature Conservancy.

John A. Christy  
Milwaukee Public Museum  
800 West Wells St.  
Milwaukee, WI 53233



*Climacium dendroides*

Drawing from Common Mosses of the Pacific Coast by Harthill and O'Connor.

Editorials similar to this one which appeared in the May 3, 1987, issue of The Register-Guard have appeared in the Portland Oregonian and the Corvallis newspaper. Please, could NPSO members in Medford, Roseburg, Bend, Burns, Pendleton, LaGrande, Coos Bay, etc. contact their newspapers for similar coverage.

## Protect endangered species

With all eyes trained on the goal of economic development, Oregon legislators should have little trouble appreciating the fact that strength lies in diversity. What is true of the economy is true of the environment as well, but Oregon, unlike 25 other states, has failed to protect the diversity of its plant and wildlife communities. The state House of Representatives can remedy that failure by endorsing the Senate-approved State Endangered Species Act.

The act — Senate Bill 533 — would require the state Department of Fish and Wildlife to establish programs for identifying and protecting animal species in danger of vanishing from Oregon. The Division of State Lands would be required to do the same for endangered plant species.

SB 533 is similar to the federal Endangered Species Act of 1973, which protects rare plants and animals on lands under federal jurisdiction. The state's companion legislation would extend similar protection to Oregon lands.

The bill would enhance as well as supplement the federal act. The Oregon Natural Heritage Program lists 110 endangered plant species in the state, but only two are currently listed as qualifying for protection under the federal law. Eighty wildlife species, nearly half of them found nowhere but Oregon, are endangered in the state but lack federal protection. The problem is that the federal processes for listing endangered species are slow — so slow that some may disappear before the federal government acts.

Oregon, however, already has a good inventory of endangered plants and animals. The federal government is generally willing to accept state listings for its own purposes. In addition, the federal government provides matching funds for many state programs to protect endangered species. SB 533, then, would not only provide state protection that does not now exist, it would also help make the federal law more effective.

The cost of state programs to protect endangered species is a matter of dispute. After proposed protections for invertebrates were dropped from the bill, the state Department of Fish and Wildlife estimated that it could implement its part of the program at no additional expense. The Division of State Lands estimated that the endangered plant program would cost \$184,000 during the first two years.

At the request of Gov. Neil Goldschmidt's office and the Legislature's Ways and Means Committee, those estimates were revised upward to more than \$1 million per biennium. The new figure for the Department of Fish and Wildlife's program, however, included money that is already being spent to protect endangered animals. And the State Land Board, which supervises the Division of State Lands, rejected the new cost projection for the endangered plant program. While SB 533 undoubtedly would have some fiscal impact, the total seems likely to fall far short of the \$1 million figure.

Even \$1 million would be a remarkably small amount to spend on efforts to preserve a precious and non-renewable resource. Once a species becomes extinct, no amount of money can bring it back. The price of extinction can sometimes be measured in dollars — a promising new oilseed crop called meadowfoam, for instance, has been made self-pollinating through crossbreeding with an endangered plant found only in a six-square-mile area near Medford. Nothing could be more shortsighted than to deny researchers the opportunity to discover the agricultural, medicinal and industrial wealth locked within each species' unique genetic code.

More important, no species — our own included — exists apart from others. The role each plant and animal species plays in supporting the larger community of life is only beginning to be understood. It would be the worst kind of arrogance to presume that one or another species is expendable.

Oregon is the third most botanically diverse state in the nation, after Texas and California. The variety of its animal life is similarly impressive. Such diversity is a great source of strength that is weakened each time a species becomes extinct. The State Endangered Species Act would protect that diversity. The act should be approved by the House of Representatives and signed into law by Governor Goldschmidt.

### STATE PARKS DIVISION NEEDS SPECIES LISTS AND MAPS

Your help is needed to compile species lists and make maps of plant communities in state parks in the Lakeview, Klamath Falls and Lincoln City areas.

Oregon State Parks Division has started the master planning process for the following parks in Klamath and Lake Counties:

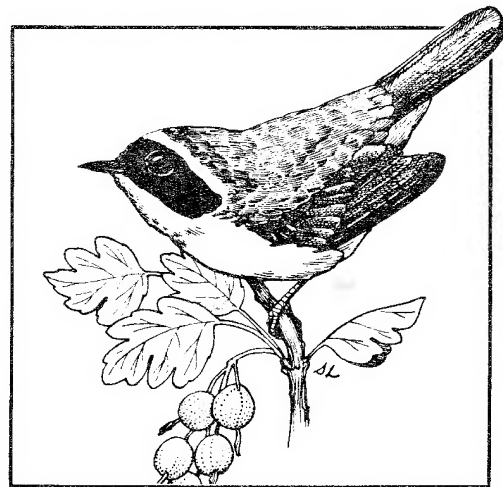
Collier Memorial State Park  
Jackson Kimball State Park  
Beaver Marsh Wayside  
Klamath Falls-Lakeview Forest Wayside  
Goose Lake Recreation Area  
Chandler State Wayside  
Booth State Wayside

and these parks on the north coast:

Devil's Lake State Park  
H.B. Van Duzer Forest Corridor Wayside  
Roads End Beach State Wayside  
"D" River State Wayside  
Gleneden Beach State Wayside  
Fogarty Creek State Park

The Division welcomes additional ecological information on other animals, plants and geology. Endangered species searches are needed. These inventories will be used to make land use decisions.

For maps and additional details, contact Marjorie Willis, Natural Resource Planner, Oregon State Parks, 525 Trade Street SE, Salem, OR 97310; phone 378-6290. The deadline for receiving information on the parks in Klamath and Lake Counties is July 1, 1987; for the Lincoln City area parks, it is August 1, 1987.



Common Yellowthroat on *Ribes*  
*Geothlypis trichas*  
By Susan Lindstedt, Malheur  
Field Station

### STATE COMMITTEE CHAIRS

NPSO Wildflower Poster & Pins . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR, 97040; 478-3576

Notecards . . . . . George Lewis  
8230 SW Cashmur Lane, Portland, OR, 97225; 292-0415

T-Shirts . . . . . Evelyn Everett  
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 11505 SW Summerville, Portland, OR 97219; 636-4112  
 Legislative Chair . . . . . Esther McEvoy  
 3290 SW Willamette, Corvallis, OR 97333; 754-0893

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 2424 Harris St., Eugene, OR 97405; 344-0312  
 High Desert (Bend area) . . . . . Stuart Garrett  
 361 NE Franklin, Bend, OR 97701; 389-6981  
 Mid Columbia . . . . . Keith Chamberlain  
 Box 151, Mosier, OR 97040; 478-3314  
 North Coast . . . . . Roy Peters  
 842-9284  
 Portland . . . . . Herb Armentrout  
 20060 SE Hwy 224, Clackamas, OR 97015; 658-2751  
 Siskiyou . . . . . Wayne Rolfe  
 311 High St., Ashland, OR 97520; 482-0093  
 Willamette Valley (Salem area) . . . . . Pat Rogers-Rochina  
 14382 Marion Road, Turner, OR 97392; 769-4669  
 Wm. Cusick (LaGrande Area) . . . . . Rachel Sines  
 504 C Ave., LaGrande, OR 97850; 963-0674

## MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
 1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
 Membership in the Native Plant Society of Oregon is open  
 to all. Membership applications & changes of address  
 (including old address & zip code) should be sent to the  
 membership chair.

## BULLETIN

Editor . . . . . Jan Anderson  
 1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
 the 10th of the month & should be sent to the editor.  
 News, articles, photos, drawings, & non-copyrighted  
 materials are welcomed.

## GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed,  
 camera-ready copy is much appreciated. But  
 no submission will be rejected because it is  
 not typed. Please proofread & check facts.

**DEADLINE:** 10th of each month

**FORMAT:** Copy should be typed in 4 1/4 inch wide  
 columns, of any length. Author's name & chap-  
 ter affiliation (or other organization) are  
 typed at the end of the article. There is no  
 standard paragraph treatment; one of these  
 is suggested:

\* for long articles, double space between  
 paragraphs, but do not indent the first  
 word of the paragraph

\* for short articles or short paragraphs,  
 when double spacing looks odd, indent  
 the first word of the paragraph instead  
 Type your own headline, centered, all caps.  
 In case of special formats, e.g. plant keys,  
 you are free to choose the layout.

**CREDITS:** For each submission, provide

\* title

\* author--specify whether byline is desired  
 for news items

\* instructions as to whether item is to be  
 used in entirety or excerpted at editor's  
 discretion

\* source & date if item is not original

**ILLUSTRATIONS:** black & white prints, ink  
 drawings, woodcuts, halftones, et al. We  
 welcome small doodles as well as larger  
 efforts. Please give source & date, if not  
 original.

**SCIENTIFIC NAMES** should follow Hitchcock &  
 Cronquist's *Flora of the Pacific Northwest*  
 where possible. Use of both scientific &  
 common names is encouraged. Genus & species  
 names are underlined or italicized.

**RETURN OF ORIGINALS:** Manuscripts & illustra-  
 tions will not be returned unless it is  
 requested.

The Bulletin is published as a service to  
 NPSO members & the public. Your suggestions  
 & comments are always welcome.

# # #

## NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

CHAPTER (if known) \_\_\_\_\_

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ADDRESS \_\_\_\_\_

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PHONE \_\_\_\_\_

IS THIS A CHANGE OF ADDRESS? If so please  
 write your OLD ADDRESS:

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\* **DUES** include monthly news bulletin. Full membership runs from January through December. Quarter member-  
 ship runs from September through December.

( ) NEW

( ) QUARTER MEMBERSHIP (\$2.50)

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( ) Student . . . . . \$ 7.50

( ) Sustaining . . . . . \$ 25.00

( ) Regular . . . . . 10.00

( ) Patron . . . . . 100.00

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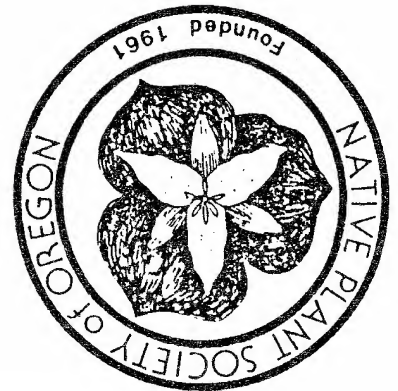
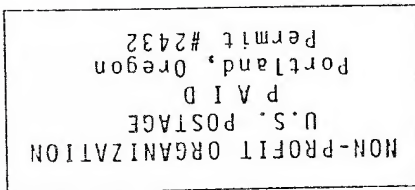
Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_

Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

\*All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible.  
 Please make checks for dues & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form  
 & full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.



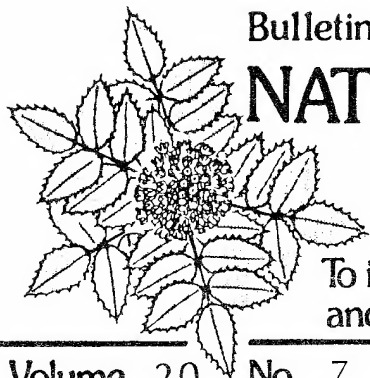
TIME DATED MAIL



Native Plant Society of Oregon  
1960 NW Lovejoy #2  
Portland, OR 97209

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Bulletin of the

# NATIVE PLANT SOCIETY of OREGON

To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 7

July 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

11 July, Sat.

Field Trip to MT. HOWARD at Wallowa Lake. Bring lunch and money for gondola ride and meet at EMCC Greenhouse at 7:00 am or at the Safeway parking lot in LaGrande at 8:15 am. Leader: Bruce Barnes.

### Corvallis

-----

There will be no meetings or presentations until October. For information, contact Dan Luoma (758-8063).

### Emerald

13 July, Mon.

Meeting, 8:00pm. Amazon Community Center, 2700 Hilyard, Eugene. A slideshow entitled "Lane County's Rare and Endangered Plant Species" will be given by Charlene Simpson.

### High Desert

All field trips leave from the parking lot behind MacDonald's Restaurant, 2048 NE 3rd, Bend, at 9:00am. Carpools are encouraged. Bring a backpack lunch. Non-members are welcome. For more information, call Stu Garrett (382-2681).

18 July, Sat.

Field Trip to CONE PEAK-IRON MOUNTAIN, one of the classic Cascade wildflower displays. Moderate to strenuous 6 mile hike. Leader: Stu Garrett (382-2681).

22 Aug., Sat.

Field Trip to BROKEN TOP. Spectacular alpine wildflowers and geology. Moderate 5 mile hike. Leader: Stu Garrett.

### Mid Columbia

1 July, Wed.

Meeting at 7:30pm at Stuart and Mildred Chapins' home (end of Eyrie Road, White Salmon, Washington). The program will be slides from southwestern Oregon. Meet at 7:15pm at Hood River Inn parking lot for carpooling and directions or call the Chapins at 509-493-2823.

### North Coast

2 July, Thur.

Meeting, 7:30 pm at 4590 Bayocean Road NW, Tillamook.

12 July, Sun.

Field Trip: Oceanside to Netarts Beach. Meet at Oceanside Wayside parking lot at 8:30 am. Leader: Clarice Maxwell (842-7023).

## Portland

3,4,5,6 July

Field Trip to the Wallowa Mountains. Friday: meet at the Mt. Howard gondola; Sat.: Hurricane Creek Campground at 8:00am; Sun. meet at Ice Lake trailhead, 8:00am; Mon. to be decided (Mt. Emily is on the way home). Leader: Charlene Holzwarth (284-3444).

11 July, Sat.

Field Trip along the Pacific Crest Trail #2000, west from Lolo Pass. Hike 8 miles with return on same trail. Meet at Zigzag Ranger Station at 8:00am. For information, contact Charlene (284-3444).

14 July, Tues.

Meeting 7:00 pm. First United Methodist Church, 1838 SW Jefferson St., Portland. The program will be given by Rhoda Love on "GREAT BOTANIC GARDENS OF AUSTRALIA".

18 July, Sat.

Field Trip to Squaw Mountain. Meet at the Estacada Ranger Station at 9:00am. For information, contact Charlene.

25 July, Sat.

Field Trip to Barlow Butte, steep hike. Meet at the Zigzag Ranger Station at 8:00am. For information call Charlene.

25 July

Lily Show at Clackamas, Oregon.

1 Aug., Sat.

Field Trip to Mt. Adams with Keith Chamberlain. Meet at parking lot at K-Mart on 122nd and Sandy Blvd. at 8:00am or at the Trout Lake Ranger Station at 9:30 am. For information contact Charlene (284-3444) or Keith (1-478-3314).

8 Aug., Sat.

Field Trip to Western 4-H Center near Salem, picnic and partly driving, special invitation to mid-valley friends. Meet at Wilsonville reststop on I-5 So. at 8:00am or Salem park at bridge at 9:00am. For information, call Charlene.

## Siskiyou

12 July, Sun.

Field Trip to White Mountain via Tincup Trail. A remote, roadless section of the Siskiyou Crest. High elevation peridotite species. About 8 miles round trip with grades and some cross-country scrambling. Meet at Ashland Bi-Mart at 8:00am, or Medford K-Mart at 8:30am. Leader: Larry Loftis (535-3053).

## Willamette Valley

11 July, Sat.

Field Trip to Maxwell Butte. Two hour drive, 4 mile trail, last  $\frac{1}{4}$  mile is steep. Outstanding Phlox display. Carpool at 8:00am at Salem K-Mart (south). Leader: Wilbur Blum (393-2934).

25 July, Sat.

Field Trip to Walker Creek on the Nestucca River drainage. Easy hike. Bring a friend to see Sidalcea nelsoniana. Carpool at 8:00 am at S. Salem K-Mart. Leader: Judy Armstrong (581-3133).

## Wm. Cusick

- - - - -

For information, contact Rachel Sines (963-0674).

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## W E L C O M E   N E W   M E M B E R S

### EMERALD

Environmental Studies Center

### HIGH DESERT

Beth Bolles

Juliet Robertson & Family

### MID COLUMBIA

Jerry Mohar

### NORTH COAST

Jean Cook

Stuart & Clarice Maxwell

### PORTLAND

Tom Chance

Anne Crockatt

Pat Dorr

Mary Lee Gregg

Daniel Hasenoehrl

Terry Mills

Willa Nehlsen

Portland Garden Club

The Wells Family

### SISKIYOU

Anne Decker

### WILLAMETTE VALLEY

Cindy Hohenleitner

Ann Maureen Scully

### WM. CUSICK

Richard & Carol Apple



## DAVID DOUGLAS - EARLY NW PLANT EXPLORER

David Douglas, one of the first plant explorers in the Northwest, became a well-known figure in the early history of Oregon. His first explorations, sponsored by the Royal Horticultural Society of Britain, will be discussed on Wednesday, July 22, at 7:30 p.m., at the World Forestry Center in Portland, OR. This free program is presented by the Hoyt Arboretum Friends Foundation.

Bob Cooper, an instructor at Central Oregon Community College, uses readings from Douglas's personal trip journals to weave this fascinating story. Douglas visited the Northwest in the 1820's and 1830's to collect "vegetable (plant) treasures" for Royal Horticultural Society members. These members would then add the new plants to their extensive gardens. He was connected with some legendary figures in gardening history, including Dr. Hooker, the founder of Kew Gardens. Douglas was also connected with the Hudson's Bay Company.

The program will be preceded by a short slide show on Oregon's many native plants. For more information on the talk, call the Arboetum at 228-8732.

## SISKIYOU CHAPTER ELECTS NEW OFFICERS

The newly elected officers for the Siskiyou Chapter are:

President:	Wayne Rolle
1st Vice-President:	Frank Lang
2nd Vice-President:	Joan SeEVERS
Sec./Treasurer:	Anita Seda

## NORTH COAST CHAPTER ELECTS NEW OFFICERS

New officers for this chapter are:

President:	Clara Farifield
V-President:	Gregg Cline
Sec./Treas.:	Clarice Maxwell

## BLUE MOUNTAIN CHAPTER FIELD TRIP REPORT

Fifteen "die-hards" from all over Oregon endured and enjoyed a full day of showers and plants in Grant County's Logan Valley (located east of Seneca on Grant County/Forest Service Road #16). One very special botanical find was an apparently disjunct population of Castilleja pilosa steenensis. We endured wind and "near-snow" rain at 7700 feet to find Steer's Head Bleedingheart carpeting the gravelly slopes that had been under snow a week earlier. Everyone enjoyed the panoramic views of the south side of the Strawberry Mountains across square miles of purplish fields of Elephant Heads, Pedicularis groenlandica. For a complete checklist of the entire trip, contact Karl Urban, PO Box 100, Pendleton, OR 97801 or Jan Anderson, Bulletin Editor.

## FLOWERS IN THE FOREST SHOW

The Portland Chapter's Native Plant Show, "Flowers in the Forest", was a great success and a lot of fun. The displays were set up in the World Forestry Center this year; a location that we had not used before.

The format was different than previous shows - most table displays were groupings of plants by habitat rather than by family. These included The North Coast, East & West Slopes of the Cascades, the Columbia Gorge (three tables' worth), Central Oregon Juniper, Mountain Bogs, Sub Alpine Forest, and Willamette Valley. There were also displays of weeds, mosses, ferns, grasses, conifers, deciduous trees and "odds and ends" (including mistletoes and plant galls). Don Eastman of the Willamette Valley Chapter provided beautiful photographs of many of Oregon's Rare & Endangered plants. Three different members gave slide shows each day in the theater adjoining the exhibit area. The hostesses and hosts were kept busy answering questions. There was a great turnout and a lot of interest shown in native plants and in NPSO.

Jeanne Huffstutter, plant show chairman, extends a hearty thank you to all those who helped; and Jeanne, thank you for all your work.

## Rare, Threatened, Endangered list out

The Oregon Natural Heritage Data Base's publication of Rare, Threatened and Endangered Plants and Animals of Oregon is available now in its April, 1987 edition. The Data Base is located at 1234 NW 25th Avenue, Portland, Oregon 97210 (228-9550). The booklet costs \$3 if picked up at the office or \$4 if mailed.

## UPDATE ON WALKER CREEK WETLANDS

McMinnville Water and Light is determined to build a dam on Walker Creek and is actively pursuing a campaign to bring political pressure that would block the "listing" of Sidalcea nelsoniana as a threatened species and force BLM to grant right-of-way approval for the dam and reservoir.

WHAT YOU CAN DO TO HELP: All the laws, both federal and state, are on "our side", but the battle has now shifted into the Washington, D.C., political arena. Senator Mark Hatfield and Congressman Les AuCoin, key members of the Appropriations Committees, have the ability (more than anyone else) to save Walker Creek Wetlands and its rare plant and animal species.

Please write Congressman AuCoin and Senator Hatfield to express your support for the listing of Nelson's Checkermallow and for protection of the wetlands. Specifically request that they appropriate "Land and Water Conservation Funds" to purchase the parcels of private land so that the entire 1900 acre basin can be protected. Please send copies of your letter to Senator Packwood, to your own Congressman (if not AuCoin), and to Governor Neil Goldschmidt.

Friends of Walker Creek Wetlands

## Saving Plants in Botanic Gardens

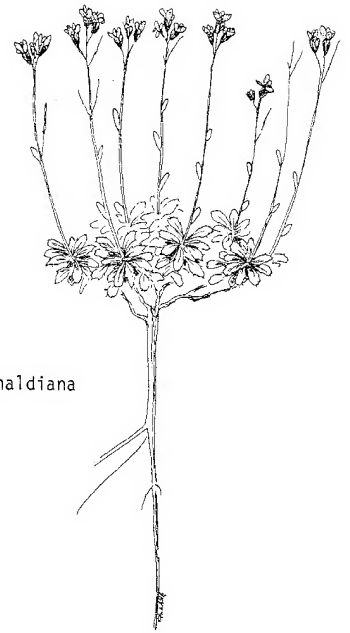
Growing and propagating native plants is a familiar subject to native plant enthusiasts. The same principles used to grow native wildflowers applies to conserving our nation's rarest plants as well. However, because of their rarity, it is important that rare plants be grown as part of institutional commitments. This precaution allows continuity of conservation efforts which, by nature, are long-term.

This premise of institutional commitment to growing rare plants is an important one for the Center for Plant Conservation. Formed in 1984, the Center is a network of 19 botanical gardens and arboreta strategically located throughout the continental United States and Hawaii. The propagation and conservation efforts are coordinated by a national office in Jamaica Plain, Massachusetts, and scientific programs are routinely reviewed by a prestigious scientific Advisory Council.

For the Pacific Northwest, our principle botanical institution is the Berry Botanic Garden in Portland, Oregon. The geographic area is ably represented on our Advisory Council by Dr. Arthur Kruckeberg of the University of Washington. California institutions affiliated with the Center are the Rancho Santa Ana Botanic Garden in Claremont, California and the University of California Botanical Garden in Berkeley, California.

Oregon is an important state for the Center's program, ranking fourth in the country for the number of nationally rare plants within its borders. Many of these 147 taxa are highly endangered, making our conservation efforts critical for the ultimate survival of the species.

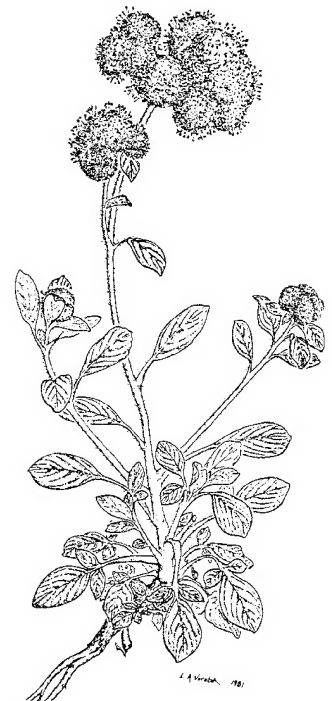
The Center contributes to conserving rare species through seed storage, propagation, and research. Seeds of rare plants are stored either at botanic gardens such as the one at the Berry Botanic Garden, or at facilities of the U.S. Department of Agriculture. For many species, our participating botanical gardens grow and propagate specimens as a living gene pool repository. Some of the specimens are used for public education and display. Additionally, the gardens carry out research on how to propagate and grow the species; this adds to our knowledge about how to maintain the species in the long run. Propagated material is available for carefully monitored reintroductions by natural resource agencies or similar groups and for research. Particularly useful is research that can lead to better knowledge of how to manage existing wild populations. To this end, we work cooperatively with the U.S. and state



*Arabis mcdonaldiana*



*Lilium occidentale*



*Phacelia argentea*

governments, The Nature Conservancy, and other conservation groups.

In 1985 and 1986, the Berry Botanic Garden began growing and propagating the following species as part of the Center's program:

Abronia umbellata ssp. breviflora

Arabis koehleri var. koehleri, Koehler's rock cress

Arabis mcdonaldiana, McDonald's rock cress

Aster vialis

Erythronium elegans

Hastingsia bracteosa

Lilium occidentale, western lily

Lomatium bradshawii, Bradshaw desert-parsley

Penstemon barrettiae, Barrett's penstemon

Phacelia argentea, silvery phacelia

Sidalcea nelsoniana, Nelson's checker-mallow

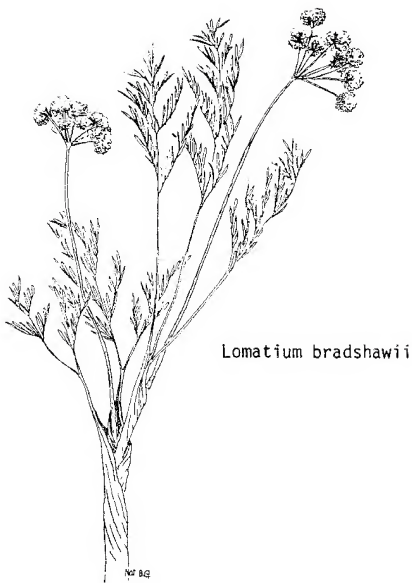
Berry has proposed the addition of another ten species in 1987.

The success of our efforts depend upon people, including the propagators at our participating botanical gardens and arboreta (such as Julie Kierstead at the Berry Botanic Garden) and interested individuals like yourselves. If you wish to help in this effort, many options are available, including:

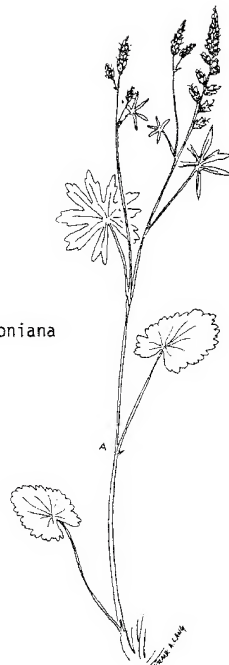
- o Support the Berry Botanic Garden through membership and donations. Target donations for the native plant conservation efforts.
- o Provide information about propagating specific rare taxa and their more common relatives to the Berry Botanic Garden.
- o Support the Center for Plant Conservation. Our Permanent Preservation Fund is designed to provide permanent funding for maintaining cultivated populations of rare plants. Donations are welcome. If you can donate \$5,000 or more, we will add a plant species to the National Collection in your name.
- o Find out more information. Write to the Berry Botanic Garden, 11505 SW Summerville Ave., Portland, Oregon 97219 or to me at the Center for Plant Conservation, 125 The Arborway, Jamaica Plain, MA 02130, for more information about our program.

--Linda R. McMahan  
Center for Plant Conservation

Linda is an Oregon native who was born and raised in Corvallis. She has a Ph.D. in botany and a law degree; her current research is on state plant conservation law. Linda has been a botanist at the Center for Plant Conservation since the fall of 1985.



Lomatium bradshawii



Sidalcea nelsoniana



Arabis koehleri

(Illustration from Threatened and Endangered Vascular Plants of Oregon: An Illustrated Guide.)



## HAVE YOU ORDERED YOUR NPSO T-SHIRT YET?

There is still an assortment of NPSO shirts available. They are in men's sizes. The T-shirts are 100% cotton and the sweatshirts are a cotton/poly blend.

### Short Sleeve

NPSO emblem (white with green)	large only
Gray <u>Opuntia polyacantha</u>	S L X-Lg.
Lt. Blue <u>Smilacina racemosa</u>	M L
Lilac <u>Darlingtonia californica</u>	S
Teal <u>Delphinium leucophacum</u>	S M
Yellow <u>Lomatium cookii</u>	S M L

### Long Sleeve

Lt. Blue <u>Smilacina racemosa</u>	M
White <u>Opuntia polyacantha</u>	S M L
Yellow <u>Erythronium</u>	M L
Lilac <u>Opuntia polyacantha</u>	L
Red <u>Opuntia polyacantha</u>	M L
Gray <u>Opuntia</u>	S M L X-Lg

### Sweatshirts

Teal <u>Cornus canadensis</u>	M L
-------------------------------	-----

White NPSO T-shirts	6.25
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Long sleeve T-shirts	10.00
Swaetshirts	16.00

Order from Nadine Smith, 1128 Jackson St., Eugene.  
OR 97402. Include \$1 for postage for each shirt.

## 1961 EDITION OF PECK FOR SALE

A mint condition volume of Morton Peck's Manual of the Higher Plants of Oregon is available for sale. If interested, please contact Jan Anderson at 1960 NW Lovejoy, #2, Portland 97209 (248-9242).



## THIRD ANNUAL ELKHORNS AMBLE FUNDRAISING HIKES

On Friday, July 24 and Saturday, July 25, 1987, the Oregon Natural Resources Council, Powder River Sportsmen and Grande Ronde Resources Council will hold the Third Annual Elkhorns Amble at Anthony Lakes Campground at the base of the magnificent Elkhorn Mtns.

The Amble begins Friday evening with a chili dinner at Anthony Lakes Campground. All participants are invited for dinner and to orient themselves for Saturday's events.

In the tradition of the Elkhorns Amble, there will be a hike for everyone. There will be several different hikes to choose from, varying in degree of difficulty from a 22-mile crest hike to a leisurely two mile stroll. Hikers will be transported to and from trailhead and departure points.

Regisration is \$12 which includes chili dinner Friday evening and breakfast Sat. morning or \$18 registration fee which includes Friday night dinner, breakfast and chicken BBQ Saturday. Registration fee may be covered by collected pledges payable during the weekend. Hikers are encouraged to seek tax-deductible pledges from friends, neighbors and family, which will go toward supporting your choice of one or all the sponsoring organizations.

### STATE COMMITTEE CHAIRS

NPSO Wildflower Posters & Pins	Susan Kofahl
P.O. Box 151, Mosier, OR 97040;	478-3576
Notecards	George Lewis
8230 SW Cashmur Lane, Portland, OR 97225;	292-0415
T-Shirts	Nadine Smith
1128 Jackson St., Eugene, OR 97402;	344-6478

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Secretary . . . . . Charlene Holzwarth  
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Esther McEvoy, Russ Holmes, Dave Gross  
R/E Chair . . . . . Jean Siddall  
535 Atwater Rd., Lake Oswego, OR 97034; 636-4633  
Conservation Chair . . . . . Julie Kierstead  
11505 SW Summerville, Portland, OR 97219; 636-4112  
Legislative Chair . . . . . Esther McEvoy  
3290 SW Willamette, Corvallis, OR 97333; 754-0893

# CHAPTER PRESIDENTS

Blue Mountain (NE Oregon) . . . . . Bruce Barnes  
731 NW 5th, Pendleton, OR 97801; 276-5547  
Corvallis . . . . . Thomas Kaye  
Herbarium, OSU, Corvallis, OR 97331; 754-4106  
Emerald (Eugene area) . . . . . Gail Baker  
2424 Harris St., Eugene, OR 97405; 344-0312  
High Desert (Bend area) . . . . . Joyce Bork  
640 NW Broadway, Bend, OR 97701; 389-5579  
Mid Columbia . . . . . Keith Chamberlain  
Box 151, Mosier, OR 97040; 478-3314  
North Coast . . . . . Clara Fairfield  
7305 Whiskey Creek Rd., OR 97141; 842-4362  
Portland . . . . . Herb Armentrout  
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Siskiyou . . . . . Wayne Rolfe  
311 High St., Ashland, OR 97520; 482-0093  
Willamette Valley (Salem area) . . . . . Pat Rogers-Rochna  
14382 Marion Road, Turner, OR 97392; 769-4669  
Wm. Cusick (LaGrande Area) . . . . . Rachel Sines  
504 C Ave., LaGrande, OR 97850; 963-0674

# MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
Membership in the Native Plant Society of Oregon is open  
to all. Membership applications & changes of address  
(including old address & zip code) should be sent to the  
membership chair.

# BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
the 10th of the month & should be sent to the editor.  
News, articles, photos, drawings, & non-copyrighted  
materials are welcomed.

# GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed,  
camera-ready copy is much appreciated. But  
no submission will be rejected because it is  
not typed. Please proofread & check facts.  
DEADLINE: 10th of each month

FORMAT: Copy should be typed in 4 1/4 inch wide  
columns, of any length. Author's name & chap-  
ter affiliation (or other organization) are  
typed at the end of the article. There is no  
standard paragraph treatment; one of these  
is suggested:

\* for long articles, double space between  
paragraphs, but do not indent the first  
word of the paragraph

\* for short articles or short paragraphs,  
when double spacing looks odd, indent  
the first word of the paragraph instead  
Type your own headline, centered, all caps.  
In case of special formats, e.g. plant keys,  
you are free to choose the layout.

CREDITS: For each submission, provide

\* title

\* author--specify whether byline is desired  
for news items

\* instructions as to whether item is to be  
used in entirety or excerpted at editor's  
discretion

\* source & date if item is not original

ILLUSTRATIONS: black & white prints, ink  
drawings, woodcuts, halftones, et al. We  
welcome small doodles as well as larger  
efforts. Please give source & date, if not  
original.

SCIENTIFIC NAMES should follow Hitchcock &  
Cronquist's Flora of the Pacific Northwest  
where possible. Use of both scientific &  
common names is encouraged. Genus & species  
names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustra-  
tions will not be returned unless it is  
requested.

The Bulletin is published as a service to  
NPSO members & the public. Your suggestions  
& comments are always welcome.

# # #

# NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

CHAPTER (if known) \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

IS THIS A CHANGE OF ADDRESS? If so please  
write your OLD ADDRESS:

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\* DUES include monthly news bulletin. Full membership runs from January through December. Quarter member-  
ship runs from September through December.

( ) NEW

( ) QUARTER MEMBERSHIP (\$2.50)

( ) RENEWAL

( ) Student . . . . . \$ 7.50

( ) Regular . . . . . 10.00

( ) Family membership . . . . . 15.00

( ) Sustaining . . . . . \$ 25.00

( ) Patron . . . . . 100.00

( ) Life member . . . . . 500.00

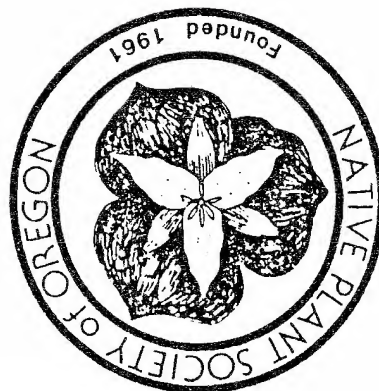
# \*CONTRIBUTIONS:

Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_  
Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

\*All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible.  
Please make checks for dues & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form  
& full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.

TIME DATED MAIL

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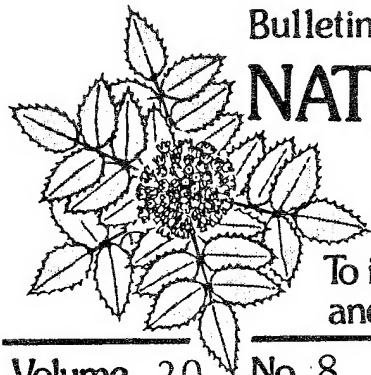


Native Plant Society of Oregon  
1960 NW Lovejoy #2  
Portland, OR 97209

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To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 8

August 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

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For information, contact Bruce Barnes (276-5547).

### Corvallis

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There will be no meetings until October. For information, contact Dan Luoma (758-8063).

### Emerald

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There will be no meetings until October. For information, contact Gail Baker (344-0312).

### High Desert

22 Aug., Sat.

Field Trip to BROKEN TOP. Spectacular alpine wildflowers and geology. Moderate 5 mile hike. Leader: Stu Garrett (382-2681).

### Mid Columbia

5 Aug., Wed.

Meeting at 7:30 pm at Susan Kofahl's home, 2050 Mosier Creek Rd, 3 miles south of Mosier. The program will cover southeastern Oregon plantlife and the Desert Wilderness Conference attended by 3 members last spring. A potluck dinner starting at 6 pm will precede the meeting for those who can come early. 478-3576.

### North Coast

6 Aug., Thurs.

Potluck, 5:30 pm; Meeting 7:30 pm. Kilchis Park.

22 Aug., Sat.

Field Trip. Meet at north parking lot, Oswald West State Park, 10:00 am. Leader: Clarice Maxwell (842-7023).

### Portland

1 Aug., Sat.

Field Trip to Mt. Adams with Keith Chamberlain. Meet at south end of K-Mart parking lot on 122nd and Sandy Blvd. at 8:00 am; or Trout Lake Ranger Station at 9:30 am. For information contact Charlene Holzwarth (284-3444) or Keith (1-478-3314).

8 Aug., Sat.

Field Trip to Kinzel Lake with hike to Devil's Peak (Mt. Hood N.F.). Meet at K-Mart, 122nd and Sandy at 8:00 am. Information: Charlene (284-3444).

15 Aug., Sat.

Field Trip to Welcome Lakes, east of Bull of the Woods. Meet at Estacada Ranger Station at 9:00 am. Information: Charlene (284-3444).

NO meeting in August.

22 Aug., Sat.

Field Trip to Monument Peak (Willamette N.F.). Meet at Wilsonville Rest Stop I-5 Southbound at 8:00 am (see the National Trees). Information: Charlene (284-3444).

29 Aug., Sat.

Field Trip to Sisters Rock and Observation Peak (Gifford Pinchot N.F.). Meet at K-Mart, 122 and Sandy at 8:00 am. Information: Charlene (284-3444).

5,6,7 Sep.

Field Trip to Crater Lake National Park and Diamond Lake. Meet 1:00 pm Saturday 5 Sep. at Crater Lake Information Office (Rim Visitor Center). Reservations: Diamond Lake Resort 793-3333; Ft. Klamath; Crater Lake Lodge. The lovely campgrounds inside the Park are first-come, first-serve basis.

## Siskiyou

-----

For information, contact Wayne Rolle (482-0093).

## Willamette Valley

-----

For information, contact Pat Rogers-Rochma (769-4669).

## Wm. Cusick

-----

For information, contact Rachel Sines (963-0674).

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### WE DID IT!! THANKS, ESTHER, JULIE & ANDY!!

As everyone knows now, the NPSO-sponsored Endangered Species Bill, despite gloomy predictions at the beginning of the 1987 legislative session, passed both the House and the Senate unanimously and went to Governor Goldschmidt during the final hours of the session!

There will be many articles in this Bulletin explaining which people, in our organization, in ONRC, in the House, the Senate and other areas of state government played key roles in our remarkable victory. Each Bulletin reader who wrote letters, made phone calls, visited legislators, and testified at hearings deserves an enormous thank you for your effort.

However, I think we all realize that without the remarkable and tireless efforts of Esther McEvoy, Julie Kierstead and Andy Kerr, this "small miracle" as Carl Hosticka has called it, could never have taken place.

Both our young women have babies to care for, yet both put in hundreds -- perhaps thousands -- of hours on this effort. And Andy Kerr was relentless, too. On any day during the 6-month session at least one of the three and often all of them were in Salem doggedly searching for key votes, planning strategy, and working out compromises.

At this point, while we are still savoring victory, I urge every NPSO member to write at least 3 more letters. Certainly, write to your legislative representatives and thank them for their work on behalf of the Bill, or at least for their final votes, but please, sit down now before you forget and write to Esther, Julie and Andy, our dedicated triumvirate.

Indeed passage of this Bill was a group effort and Oregon's endangered plants and animals will be safer for it. But our three dedicated lobbyists brought all our efforts together and made it happen. Please, everyone write and say:

THANKS, ESTHER, JULIE, AND ANDY, OUR VERY OWN MIRACLE WORKERS!

-- Rhoda Love

### \*\*\*\*\* BOTANY POSITION \*\*\*\*\*

The Oregon Department of Agriculture will be hiring one full time botanist to implement the Oregon Endangered Species Act.

If interested contact:

Bill Wright  
Plant Division  
Oregon Department of Agriculture  
635 Capitol Street NE  
Salem 97310-0110

\*\*\*\*\*

### HAIRS REVEAL ERROR

In the July issue of the NPSO Bulletin I indicated that we (the Blue Mountain Chapter) had located an apparently disjunct population of *Castilleja pilosa steenensis* on our field trip of May 30 to the Seneca and Logan Valley area. Because the population of paintbrush was sufficiently large I asked one of our members to collect a specimen and indicated that I would send it to Dr. Kenton Chambers at Oregon State University for confirmation. Dr. Chambers informed (07/10) that the specimen is *Castilleja pilosa pilosa* rather than the variety *steenensis*. In the interest of accuracy I wanted to let everyone know that I read the hairs incorrectly! Please correct your checklists, records, and/or floppy disks.

Karl Urban,  
Blue Mtn. Chapter

## Legislative Notes

The State Endangered Species Bill (SB 533C) cleared both houses of the Legislature as the 1987 session drew to a close. The bill was substantially weakened by the House Agriculture, Forestry, and Natural Resources Committee from the version passed by the Senate (533A). Even with all the amendments, SB 533C is a net gain for endangered and threatened species of wildlife and plants in Oregon.

Thank you for all the letters, phone calls, and visits to your representatives. The grass root support was just great! My local representative's office commented that we had a great network of communication going...filled a file full of letters! It is truly a memorable occasion for all of us. We now have a state Endangered Species Act!

### MOUNTAIN GOATS IN THE GORGE?

Oregon Department of Fish and Wildlife (ODFW) has proposed introduction of mountain goats in the Columbia Gorge, for viewing and hunting. The Mt. Hood National Forest is now considering this proposal.

Introduction of goats was attempted early in the 1970s in the Tanner Butte area. The population appears to be declining. ODFW has decided that the mountain goat is indigenous to the area, and now wants to attempt introduction again.

Mountain goats were introduced to the Olympic Peninsula early in the 20th century for sport hunting. Under the protection of the National Park, they have multiplied and caused extensive damage to vegetation, notably in the Klahhane Ridge area. Flett's violet is among a dozen plant species threatened by goat activity.

How the Columbia Gorge and its plants, as we know them today, would be affected by goats is unknown.

Prior to allowing introduction activity on National Forest land, USFS must prepare an Environmental Impact Statement (EIS). The first phase of the EIS process is scoping the issues. Many have been identified:

- Goat impacts on present and future populations of native plants and wildlife.
- Conflicts of habitat management objectives and monitoring methods with other objectives and policies in the Gorge (wilderness, scenic area, Bull Run watershed, etc.)
- Will goats be visible? Will a hunting season be established?

- Can ongoing monitoring be carried out effectively, because of budget uncertainties, difficulties of radio collar tracking or visual monitoring, etc.?
- Is sufficient information available to estimate the carrying capacity of the area, the demands of the goats, and their reproductive ability?

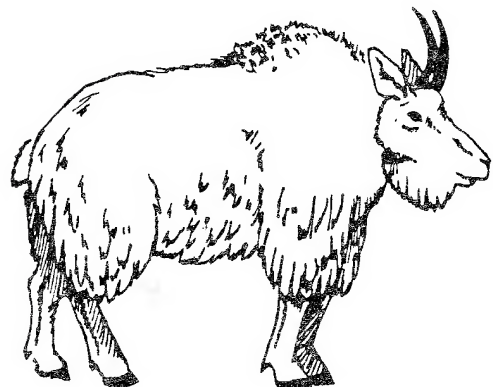
Additions to the list of issues are being sought now. Deadline for submittal of issues is July 30.

After the issues are identified, a Draft EIS (DEIS) is written. Several alternative actions are proposed, and the consequences of each are explained. Alternatives may include introduction in various quantities, in few or many locations, with a variety of management policies. One alternative is a "do nothing" --denial of any introduction. The DEIS also contains or refers to research documenting existing conditions.

When the DEIS is published, public comments are requested. At least one hearing must be held. Then USFS will choose one alternative, or a synthesis of several alternatives, and publish a Final EIS, which is exposed for further public comment before being approved, modified, or rejected by USFS management (up to Secretary of Agriculture). The President or Congress may overrule any USFS-USDA decision.

Letters expressing opposition to goat introduction may be appropriate in the future, but now attention should be directed to completing the list of issues to be studied. Comments and questions can be addressed to:

Dean Longtree, Team Leader; or  
Anne Heisler, Public Affairs  
Mt. Hood National Forest  
2955 N.W. Division St.  
Gresham, OR 97030  
(503)666-0700



Drawing from A Field Guide to the Olympics & Cascades by Stephen Whitney.





THE LEGISLATIVE HISTORY OF THE OREGON  
STATE ENDANGERED SPECIES ACT OF 1987

Senate Bill 533 is the result of years of hard work by many individuals, conservation groups, and state agencies. The NPSO legislative committee met many times for the last few years and worked up a number of drafts. In development of the bill we solicited from each state agency information on existing statutes, programs, coverage of the Federal Endangered Species Act, and future plans for the protection of the native fauna and flora of Oregon.

In crafting the bill we reviewed other state bills and programs on endangered species. We fashioned an "ideal Bill" for Oregon with all the information gathered above and by using both A Model Plant Protection Act by Linda McMahan and Bruce Manheim and A Model State Endangered Species Conservation Act by Bruce Manheim. A draft was circulated to over 60 individuals for comments. We continued to consult with interested individuals, agencies and groups to ensure that the resulting bill would provide Oregon with legislation to conserve its native diversity of plants and animals.

Now with a draft of a bill we looked for an interested legislator to help us begin the legislative process. Rhoda Love found Representative Carl Hosticka from Eugene very interested in the ideas for the bill. Rep. Hosticka requested an attorney on the Legislative Council draft the bill. By January we had a legislative council draft.

As the 1987 legislative session commenced, we searched for a way to introduce the bill. Caryn Talbot Throop who supported the concept of the bill from its beginnings, recommended the bill start on the Senate side as a committee bill. Senator Bill Bradbury from Bandon was extremely supportive of the bill. As committee chair of the Agriculture and Natural Resources Committee, Bradbury agreed to introduce it as a committee bill.

In the months following the assignment of the bill to the committee, we concentrated our efforts on a number of educational items. A brochure, an educational packet, and a slide show were put together. Our growing list of supporters now included Secretary of State Barbara Roberts, former State Treasurer Bill Rutherford and Attorney General David Frohnmayer. The bill was now printed up as Senate Bill 533 sponsored by the Senate Committee on Agriculture and Natural Resources (at the request of the Native Plant Society of Oregon).

The first public hearing on the Endangered Species Bill was April 3. It was a well

attended afternoon hearing with few opponents. After the hearing, work began on amendments dealing with the controversial parts of the bill. A committee work session dealt with the effects on private lands, the definition of wildlife, definition of species eligible for listing, and water rights.

In SB 533 the definition of wildlife for the Oregon Department of Fish and Wildlife (ODFW) included "molluscs, crustaceans, arthropods, and other invertebrates". The money to implement this invertebrate part of the bill was testified at \$ 210,000 for two years. Since there were no appropriations attached to the bill, the proponents of the bill wanted a minimal fiscal impact to the agencies involved in the programs. The proponents decided to delete invertebrates and expected the fiscal impact to drop to zero.

After adopting amendments the bill passed out of the Senate Agriculture and Natural Resources Committee on April 17 as SB 533A. Shortly thereafter, the Governor's office requested ODFW to reconsider its original estimate of the fiscal impact. As a result of the new requests from the Governor's office and the Senate Ways and Means Committee Chair Mike Thorne, ODFW raised its estimate to \$1 million dollars!

For the plant program, the Division of State Lands (DSL) originally estimated an impact of \$ 184,000 for the first biennium. The Governor's office made a similar request to the DSL. The revised budget was around \$ 600,000. Luckily, this budget was not submitted due to objections by Secretary of State Barbara Roberts and former State Treasurer Bill Rutherford.

This fiscal fiasco almost killed SB 533A. On April 24 the Endangered Species Bill was debated by the Oregon Senate. Senator Jeannette Hamby carried the bill and heroically defended the merits of SB 533A. After a lengthy floor debate, the bill was almost sent to the Senate Ways and Means due to the "million dollar" price tag on the program. (This referral would have been the death of SB 533A). The motion for referral was withdrawn after deciding the bill would go to the House Ways and Means. Then the Oregon Senate passed the bill by a 16 -14 vote.

After passing the Senate, SB 533A was assigned to the House Agriculture, Forestry and Natural Resources Committee, chaired by Representative Bernie Agrons (a retired executive of Weyerhaeuser Co.) from Klamath Falls. There were 3 public hearings with hours of testimony. Now the opposition came

out in full force. Rep. Agrons asked to hear comments from all opposing parties in order to "lay the cards on the table". Rep. Agrons arranged a number of small work sessions to iron out the differences. These meetings included key figures from the opposition, state agencies, proponents of the bill and the governor's Natural Resources assistant.

House Speaker Vera Katz took a special interest in the Endangered Species Bill. Her assistant Phil Keisling was a vital part in the process of negotiating a final version of the bill. Katz kept a watchful eye on the progress of the bill. She appeared at a number of the hearings and work sessions to make sure the bill did not die in committee.

After many work sessions on the bill, an amended version emerged from the committee. The version voted out of committee was much weaker than the original Senate version. The Senate version made the provisions mandatory, now they were discretionary. The bill now covered only state lands. Private lands and water rights were totally exempt. The plant program was now housed in the Department of Agriculture. The wildlife definition included species in danger of extinction throughout any significant portion of their range within this state. The plant definition did not include "within this state". Only plant species threatened or endangered throughout any significant portion of their range are covered by this bill. Now there was explicit criteria for listing, explicit procedures for public participation, and a specified periodic review of listed species. Location of species could now be withheld from the public if unlawful taking is likely to occur.

Even though the bill was greatly weakened from the Senate version, the resulting program was still a plus for the state. The proponents of the bill felt it was a net gain. The governor's office now supported the amended version. The opposition had no more objections. Next, the bill was sent to the House Ways and Means. An appropriation of \$ 91,332 was given to the Department of Agriculture for implementing the plant program. The ODFW had a zero fiscal impact as a result of the amendments. (About one quarter of Nongame Program monies is already used for endangered species.)

In the last days of the legislative session the amended version of the Endangered Species Bill (SB 533C) cleared the House floor, 60-0, and the Senate floor, 23-0. Vera Katz spoke favorably on the floor of the House. She said "We weren't

sure we wanted the bill when they were through. But we looked at the finished product. Everybody had agreed on the bill. Everybody agreed it was a step forward."

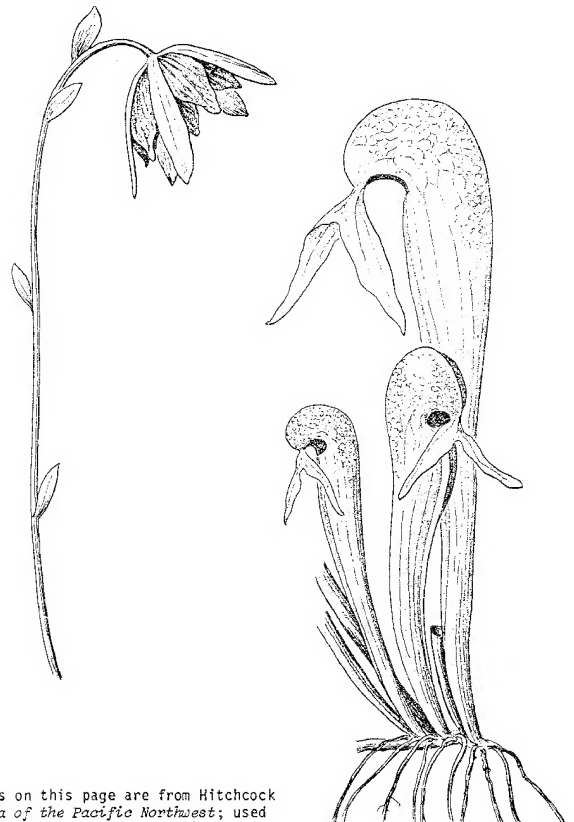
Rep. Hosticka said, "We know the foundation of all natural resources in this world is the gene pool and the genetic diversity that is available to us. That gene pool is rapidly being diminished throughout the world, and the Pacific Northwest is no exception. This is basically a protection for natural resources and the foundation for any future we have."

As a result of passage of SB 533C, Oregon now has the beginning framework to start an Endangered Species Program. We did it in 1987, the year of the Endangered Species Bill!

This incredible feat would not have been possible without the dedication of Julie Kierstead, Andy Kerr, and the many devoted supporters. Thank you one and all for making a miracle happen.

*Ether*

Esther Gruber McEvoy  
State Legislative Chair



(Illustrations on this page are from Hitchcock et al., *Flora of the Pacific Northwest*; used with permission from the publisher.)

*Darlingtonia californica*



"Conservation is the highest form of patriotism. Every nation's basic wealth and progress stem from its natural resources. Our entire society rests upon and depends upon our water, our land, our forests, and our minerals. How we use these resources influences our health, security, economy, and well-being."

-- President John F. Kennedy,

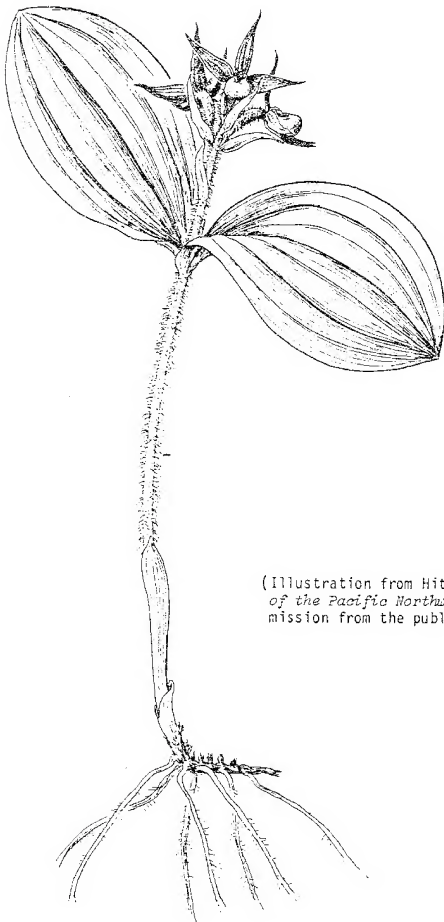
#### AGGRESSIVE FLOWERS

An orchid needing pollination will go to great lengths to lure a lover, even resorting to bondage.

One orchid courts mosquitoes. Others attract male insects by mimicking the shape and smell of females. Still another simply traps the object of affection in its pouch overnight.

These are among the findings of Ralph Holman, a Univ. of Minnesota biochemist, who has concluded that fragrance probably is an orchid's most potent weapon. He says each orchid's scent attracts a specific insect, such as a bee, wasp, beetle or butterfly. Holman has analyzed 600 orchid fragrances.

(This article was in the Science section of the Oregonian on July 10, 1986.)



(Illustration from Hitchcock et al., *Flora of the Pacific Northwest*; used with permission from the publisher)

*Cypripedium fasciculatum*

#### SILVER STAR MOUNTAIN - A NEW PUBLICATION

"Silver Star Mountain, a Short History and Plant List" is a recent publication which describes the evolution of the mountain (north of Washougal, WA) in man's presence and also contains an up-to-date plant list, information long sought by naturalists, mountain walkers, and the general public. Published by the Mazamas, in cooperation with the American Alpine Club, the Vancouver Audubon Society, the Portland Chapter of the Native Plant Society of Oregon, and the Silver Star Study Group, it is the first of several monographs designed to increase our cognizance of the unique and beautiful mountain, and to suggest to the Gifford Pinchot Forest Manager support for Silver Star as a dispersed non-motorized recreation area.

The 16-page monograph may be purchased from Ruth Oliver, 0220 SW Ridge Drive, Portland OR 97219 for \$3.00. Mail orders may be forwarded to this address or to Nick Dodge, 4609 SW 29th Pl., Portland, OR 97201. Three dollars includes postage.

Once you have read the monograph, it will be obvious why all of us need to be involved in this mountain's future. Its unique alpine environment, skiing, hiking, and birding opportunities, coupled with plant study, make it a priceless heritage. Your support of this project will make possible future publication of monographs dealing with geology, hiking trails, birds, and other timely subjects.

#### COME AND JOIN THE CELEBRATION!!!

A celebration for the passing of Senate Bill 533 will be held on Saturday, September 12, 3 to 7 pm, at Avery Park in Corvallis. More details will be provided in the next Bulletin.

The Willamette Valley Chapter now has a post office box available for their mailing address. It is P.O. Box 68, Salem, OR 97308.

#### STATE COMMITTEE CHAIRS

NPSO Wildflower Posters & Pins . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR 97040; 478-3576

Notecards . . . . . George Lewis  
8230 SW Cashmur Lane, Portland, OR 97225; 292-0415

T-Shirts . . . . . Nadine Smith  
1128 Jackson St., Eugene, OR 97402; 344-6478



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Vice President . . . . . Marjorie Willis  
1190 Twenty-first NE, Salem, OR 97301; 581-6073  
Secretary . . . . . Charlene Holzwarth  
2524 NE 34th Ave., Portland, OR 97212; 284-3444  
Treasurer . . . . . Marge Ettlinger  
63820 Quail Haven, Bend, OR 97701; 382-2255  
Directors . . . . . Don Eastman, Julie Kierstead, Barb Fox,  
Esther McEvoy, Russ Holmes, Dave Gross  
R/E Chair . . . . . Jean Siddall  
535 Atwater Rd., Lake Oswego, OR 97034; 636-4633  
Conservation Chair . . . . . Julie Kierstead  
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7305 Whiskey Creek Rd., OR 97141; 842-4362  
Portland . . . . . Herb Armentrout  
20060 SE Hwy 224, Clackamas, OR 97015; 658-2751  
Siskiyou . . . . . Wayne Rolfe  
311 High St., Ashland, OR 97520; 482-0093  
Willamette Valley (Salem area) . . . . . Pat Rogers-Rochna  
14382 Marion Road, Turner, OR 97392; 769-4669  
Wm. Cusick (LaGrande Area) . . . . . Rachel Sines  
504 C Ave., LaGrande, OR 97850; 963-0674

# MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
Membership in the Native Plant Society of Oregon is open  
to all. Membership applications & changes of address  
(including old address & zip code) should be sent to the  
membership chair.

# BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
the 10th of the month & should be sent to the editor.  
News, articles, photos, drawings, & non-copyrighted  
materials are welcomed.

# GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed,  
camera-ready copy is much appreciated. But  
no submission will be rejected because it is  
not typed. Please proofread & check facts.

**DEADLINE:** 10th of each month

**FORMAT:** Copy should be typed in 4 1/4 inch wide  
columns, of any length. Author's name & chap-  
ter affiliation (or other organization) are  
typed at the end of the article. There is no  
standard paragraph treatment; one of these  
is suggested:

\* for long articles, double space between  
paragraphs, but do not indent the first  
word of the paragraph

\* for short articles or short paragraphs,  
when double spacing looks odd, indent  
the first word of the paragraph instead  
Type your own headline, centered, all caps.  
In case of special formats, e.g. plant keys,  
you are free to choose the layout.

**CREDITS:** For each submission, provide

\* title

\* author--specify whether byline is desired  
for news items

\* instructions as to whether item is to be  
used in entirety or excerpted at editor's  
discretion

\* source & date if item is not original  
**ILLUSTRATIONS:** black & white prints, ink  
drawings, woodcuts, halftones, et al. We  
welcome small doodles as well as larger  
efforts. Please give source & date, if not  
original.

**SCIENTIFIC NAMES** should follow Hitchcock &  
Cronquist's *Flora of the Pacific Northwest*  
where possible. Use of both scientific &  
common names is encouraged. Genus & species  
names are underlined or italicized.

**RETURN OF ORIGINALS:** Manuscripts & illustra-  
tions will not be returned unless it is  
requested.

The Bulletin is published as a service to  
NPSO members & the public. Your suggestions  
& comments are always welcome.

# # #

# NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

CHAPTER (if known) \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

IS THIS A CHANGE OF ADDRESS? If so please  
write your OLD ADDRESS:

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\* **DUES** include monthly news bulletin. Full membership runs from January through December. Quarter member-  
ship runs from September through December.

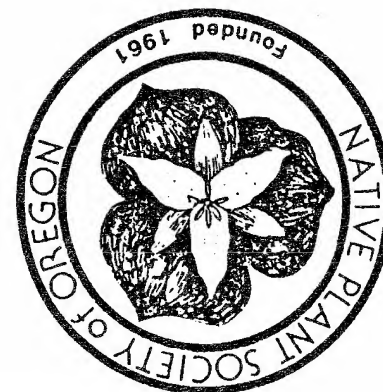
( ) NEW ( ) QUARTER MEMBERSHIP (\$2.50) ( ) RENEWAL

( ) Student . . . . .	\$ 7.50	( ) Sustaining . . . . .	\$ 25.00
( ) Regular . . . . .	10.00	( ) Patron . . . . .	100.00
( ) Family membership . . . . .	15.00	( ) Life member . . . . .	500.00

\* **CONTRIBUTIONS:** Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_  
Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

\*All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible.  
Please make checks for dues & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form  
& full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.

TIME DATED MAIL

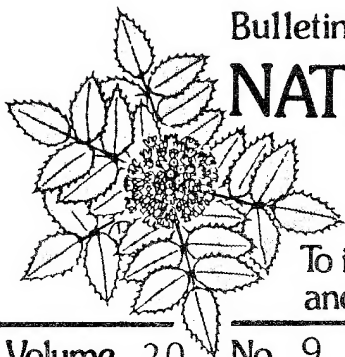


Native Plant Society of Oregon  
1960 NW Lovejoy #2  
Portland, OR 97209

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To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 9

September 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

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For information, contact Bruce Barnes (276-5547).

### Corvallis

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No meeting in September.

19 Sept., Sat.

Field Trip to SAND LAKE, possible work party to pull European beachgrass, look for a missing Darlingtonia bog, and hike around the area. Contact Esther McEvoy for further information (754-0893).

### Emerald

-----

There will be no meeting in September. For information, contact Gail Baker(344-0312).

### High Desert

-----

For information, contact Joyce Bork (389-5579).

### Mid Columbia

2 Sept., Wed.

Meeting at 7:30pm at the Mosier School. The program will be a presentation by George Lewis of the Portland Chapter featuring slides from his private collection derived from botanizing all around the state.

### North Coast

-----

There will be no meeting in September.

27 Sept., Sun.

Field Trip to MUNSON CREEK PARK at 2:00pm. For information, contact Clara Fairfield (842-4362).

### Portland

5 - 7 Sept.

Labor Day Weekend

Crater Lake field trip. For information, contact Charlene Holzwarth(284-3444) before 4th. Sat. (Sept. 5) meet at the Exhibit Building Information Desk near Crater Lake Lodge at 12 noon. Hike to Observation Point about 1.7 miles on a steep trail on the Garfield Peak Trail above 6,000ft.

Sun. (Sept. 6) Meet at the entrance of the Diamond Lake Dining Hall at 8am. Drive to the Boundary Springs Natural Area. Hike to a sphagnum moss area, not steep but requiring footgear adequate for a gravel trail. Elev. 5,000.

Mon. (Sept. 7) meet at 8am at the Park Headquarters, Munson area on the South side. View two wildflower gardens before driving the perimeter of Crater Lake.

8 Sept., Tues.

Meeting, 7:00pm. First United Methodist Church, 1838 SW Jefferson St., Portland. Steve and Laura Gasaway will present a program on the Northwest Territory and Alpine Areas of the Canadian Rockies



- 12 Sept., Sat. Field Trip to ? ? ?. Meet at the K-Mart at 122nd and Sandy Blvd., south end of parking lot, at 8:00am. For information, contact Charlene Holzwarth (284-3444).
- 19 Sept., Sat. Field Trip to Bull Run Reservoir by bus(\$12.00). Meet the bus at the Lloyd Center area, NE 16th and Clackamas at 8:00am, return by 4pm. Bring lunch, thermos, cameras and binoculars. We shall be accompanied by a U.S. Forest Service guide. Make checks payable to NPSO Portland Chapter and mail to Charlene at 2524 NE 34th, Portland, OR 97212 to reserve a seat. Other chapters' members are invited to join us.
- 26 Sept., Sat. Sauvie Island Wintering In. Meet at 8:00am at the Sauvie bridge parking lot. Drive to Oak Island for a short circle hike before returning to the Bybee-Howell House celebration. Bring lunch, binoculars, bird books. People who would like to help Esther Kennedy at the Bybee-Howell House display table should call her directly. Other questions, call 284-3444.
- 3 Oct., Sat. Fall color trip in Washington led by Carroll Dubar. Meet at 8:00am at the K-Mart on 122nd and NE Sandy. Second meeting place is at Yale State Park near Cougar, WA. (Rest station nearby.) Drive 70 mile to easy trail with 700 ft. elevation gain in Sheep's Canyon on southwest St. Helen's area. Six miles round trip to 4,000ft.
- 10 Oct., Sat. Coast trip to Cape Meares area (Tillamook). More information next month.

## Siskiyou

- 10 Sept., Thurs. Potluck dinner followed by general meeting. Dinner at 6:00pm in Lithia Park across the creek from the upper duck pond. Bring your own favorite picnic dishes and get re-acquainted. Program at 7:30pm in SOSOC Science Bldg. room 118. Dr. Frank Lang, Professor of Botany at SOSOC, will give a slide presentation entitled "Man and Nature".

## Willamette Valley

- 21 Sept., Mon. Meeting at 7:30pm at the First United Methodist Church, corner of SE Church and State Streets, Salem. (Use the Church St. entrance.) Margie Willis will present a slide program on "Poisonous and Edible Plants of Oregon".

## Wm. Cusick

- - - - -

For information, contact Rachel Sines (963-0674).

### STATE BOARD MEETING - October 17, Eugene

The next State Board meeting will be held on Saturday, October 17, at 11am until about 3pm in the Business Ed. Building, Room 212 on the Lane Community College Campus in Eugene. Park in the West Parking Lot and walk through the main entrance to the campus. Bring a sack lunch, there is no food service available. (Hot water, coffee, and juice will be provided.) All members are welcome to attend.

### Wanted ...

Information on cinnabar moth larvae feeding on native species of Senecio. Send location, species, date, and any other information to:

John Diehl  
Entomology Department  
Oregon State University  
Corvallis, OR 97331

### EMERALD CHAPTER ELECTS NEW OFFICERS

The 1987-88 slate of officers for the Emerald Chapter is:

President	Gail Baker
Vice Pres.	Rhoda Love
Secretary	Charlene Simpson
Treasurer	Nadine Smith
Conservation	Warren Pavlat
R/E Chair	Gaylee Goodrich

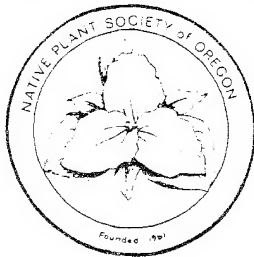
### Managing the Metropolitan World Around Us

Mike Houck, Urban Naturalist - Portland Audubon Society; Jack Sabin, Port of Portland; and Janet Gillespie, Department of Environmental Quality, will discuss environmental concerns of the Portland area. Monday, October 19, 10 a.m. (coffee at 9:30) at the Portland Garden Club's Clubhouse, 1132 S.W. Vista Avenue. The meeting is open to the public and free.

Tom McCall Preserve at Rowena work party  
October 24, 1987

The Nature Conservancy has announced a work party to clean up a couple of old dumpsites on the Tom McCall Preserve at Rowena. State Parks will provide the trucks to haul the rubbish away. Workers will be needed to collect the rubbish and load the trucks. NPSO members are invited to help in this effort.

Meet at 9 am Saturday, October 24 at Mayer State Park viewpoint with lunch and gloves. Upon completion of the task, everyone is invited to Susan Kofahl's home in Mosier for refreshments. Contact Berta Youtie at 228-9561 or Susan Kofahl at 478-3576 if you have questions.

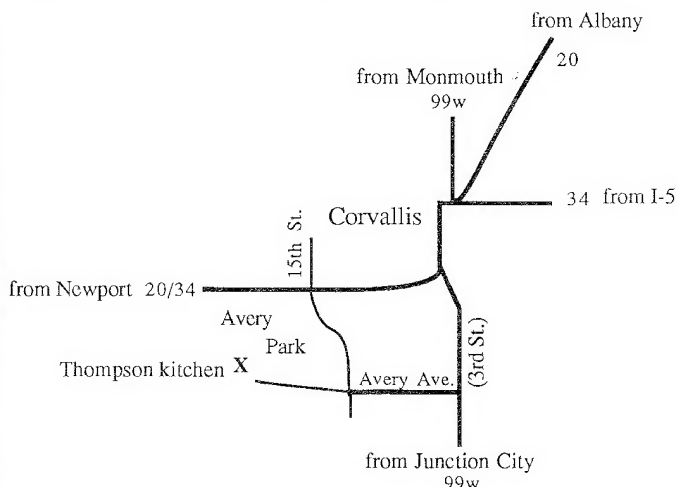


## The Native Plant Society of Oregon

cordially invites you to come join a celebration for passage of Senate Bill 533, The Endangered Species act of 1987.

Saturday September 12  
3 to 7 pm.  
Thompson Kitchen, Avery Park, Corvallis

Come join us for a potluck barbecue. families, children welcome.  
Large covered shelter, so we will celebrate rain or shine!



*You are cordially invited to attend a reception celebrating  
the passage of the Oregon Endangered Species Act*

*Wednesday, September 9, 1987*

*5:30 pm to 7:30 pm*

*Audubon House*

*5151 NW Cornell Road*

*Portland*

*(Call 292-6855 for directions)*

*Honored guests include:*

*Barbara Roberts, Secretary of State*  
*Vera Katz, Speaker, Oregon House of Representatives*  
*Jeanette Hamby, Oregon Senate*  
*John Kitzhaber, President, Oregon Senate (invited)*  
*Bill Bradbury, Oregon Senate (invited)*

*sponsored by*

*Portland Audubon Society*  
*Native Plant Society of Oregon*  
*Oregon Natural Resources Council*

### WELCOME NEW MEMBERS

#### CORVALLIS

Dan Guthrie  
Melissa Powel

#### HIGH DESERT

William Herz  
Bob & Carol Jensen  
LD & Natalie MacKellar

#### MID COLUMBIA

Afton Foote

#### NORTH COAST

Jean Gammon  
Margaret McCarter

#### PORTLAND

Anya Anderson  
Shirley Bolton  
Mary Anne Cassin  
Phyllis & Dudley Church  
Shirley Deale  
Scotty Fairchild  
Melody Holner  
Ron Machlan  
Marie Mans  
Ken Meyer  
Jerry Porter  
Moly O'Reilly  
Phyllis & John Reynolds  
Dr. & Mrs. John Shaw  
Paul Wilson

#### SISKIYOU

Laura Stark

# The Case for Co-existence

by John L. Hammond

The history of our relations to other life forms on this planet reads like a long, one-sided casualty list. The number of species presently labelled "threatened" or "endangered" is small compared to those that have ceased to exist altogether because of human intervention of one kind or another. Generally, we are aware only of the more spectacular losses: the great auk, American bison, passenger pigeon. No wild species has ever competed with humans . . . and won.

This dismal picture raises sobering questions not only about our moral capacities, but even about our ability to act from considerations of long-term self-interest.

Without doubt, humans benefit from other living things in an immense variety of ways. Some of the insects, for example, are absolutely necessary for the pollination of fruit-bearing plants. Many advances in medicine have depended on research conducted on other animals, such as the primates. And on a less tangible level, the presence of other species does much to enhance the quality of life. Try to imagine the utter silence of the forest without birds, or the barrenness of poetry without its animal imagery. It would seem, then, that it is clearly in our interest to preserve the diversity of life around us.

But the self-interest argument fails in the end for reasons which are significant. First of all, it gives us the option of trading off our interests in wildlife for some other human advantage. This is the spirit of the public lands Environmental Impact Statement. ("Under Alternative C, the number of song birds will decline, but timber production will increase . . .") The truth is, we can probably get along without the grizzly, the gray whale, the whooping crane, and even appear to prosper.

But the appeal to self-interest has another fatal flaw. It underestimates our own human nature. In spite of what the cynics and the behaviorists say, humans do respond with passion and dedication to values and aims other than those that benefit humans alone, either individually or collectively. Humans by and large have a great capacity to care for and empathize with other life forms. Furthermore, we are capable of responding to appeals to reason, to considerations of what is right. That, in a sense, gives us a perspective from which we can look beyond our own species.

For whether or not we *will* come to co-exist with the rest of living nature, the case can be made that we *ought* to. This is a philosophical and, specifically, an ethical proposition.

It is an indefensible, not to mention arrogant, notion that only humans have intrinsic worth and that all other living things have value only as they contribute to our well-being or enjoyment. This

cosmic provincialism may well serve our need for self-esteem and importance in a universe grown to frightening proportions, and it no doubt has received support from certain traditional religious doctrines. But this outlook is little more than egoism raised to the species level. Contemporary philosopher Peter Singer has called it "species-ism," to make the point that it employs on the inter-species level the same "logic" as does racism on the human level.

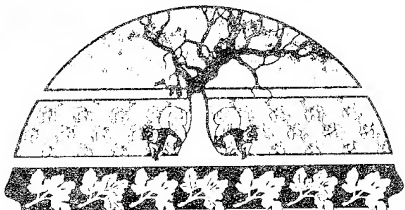
If we once succeed in putting aside this massive prejudice, we can be open to reasons for believing that we have a moral obligation to curtail the destruction of other life forms.

The case was argued in simple terms in the last century by the British social reformer Jeremy Bentham, on grounds that other animals, like us, have the capacity to enjoy and suffer. And in recent times, the moral argument has been made most eloquently by Aldo Leopold, a prophet of the modern ecology movement. Leopold noted that ethical obligations among human beings derive from membership in a community of interdependent persons. But, argued Leopold, since humans are but one species in the larger community of the biosphere, moral constraints should be extended beyond the human community to embrace all living things. Out of this grows an "ecological conscience" wherein humans see their role no longer as lord and conqueror of the land but as "plain citizen."

It does not follow from either Bentham's or Leopold's ethics that we humans should never take the lives of other creatures or never use them for our benefit. What follows, rather, is that it is morally wrong to sacrifice the *vital* interests of other animals for the sake of satisfying relatively *unimportant* human interests. Much of the past destruction of other life has violated this principle: witness the slaughter of the bison for its tongue and skin, or the passenger pigeon for food to fatten hogs. A current example is the destruction of rain forests in the West Pacific and in South America when the motive is to produce coffee or exotic woods for the affluent West, or to clear pasture to produce beef for the U.S. fast food industry.

Perhaps our most vital interest as human beings lies not in raising the material standards of life alone, but in the expression of such human and humane values as empathy, ethics and a concern for the quality of life. With self-interest redefined in this way, we may find ourselves on the path of fruitful co-existence with our fellow living beings on Earth.

(John Hammond, a philosophy professor at Portland State since 1962, teaches courses in ethics, the philosophy of religion, and the philosophy of ecology.)



(This essay was published in the summer 1985 issue of the PSU Perspective, the Portland State Univ. Alumni newsletter.)



"DON'T GIVE UP"

A year ago, a Portland NPSO member sensed a distress signal in a conversation with a Prineville NPSO member who was working laboriously on a check list of the Ochoco native plants, particularly endangered ones. Cattle were free to graze in fields of lovely wildflowers with no concern for them except to please their voracious appetites and to press these precious plants brutally into the earth. All of this was much to the frustration of this local native plant enthusiast.

A large field of Calochortus longibarbus blossoms were mysteriously snipped from their stems in one day except for three or so. Two of the remaining flowers were white and one was a pink, shorter stemmed flower which I pondered over. My friend passed it by. I think this is a good example of not seeing the tree (C. longibarbus peckii) for the forest (her eagerness to protect). These were not good specimens; still, they were of a different shape and I wanted to check them out.

This year I asked to be phoned when the Calochortus were in bud. When the phone call came, I said we would be there the next afternoon. The wild flowers were quite abundant where the cattle had not been. I said, "Come look at this pink Calochortus. Couldn't it be the endemic variety peckii that you need to get the cows out of here?"

She replied, "No! no! it doesn't grow here."

"But listen," I said, "as far as I know, it's the only place it grows. What book are you using?"

"Hitchcock."

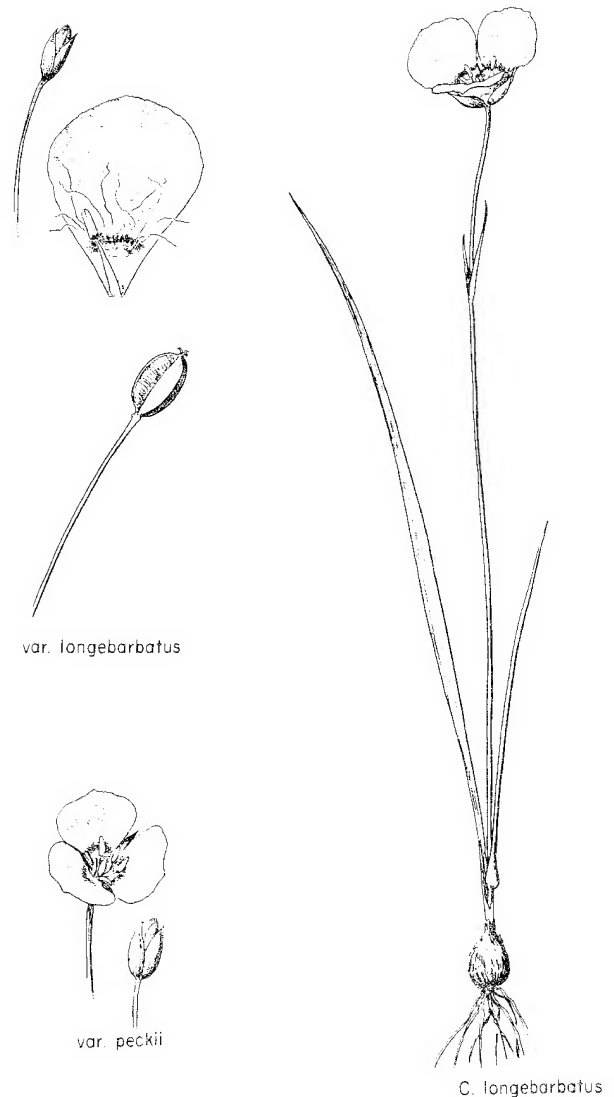
"Try Peck this evening."

The next morning she was very excited. After we returned home we heard the good news. The officials were most cooperative. The cattle are not there now.

I do know we have a very happy lady in Prineville who has a new lease on her life of protecting the native plants of the Ochocos. Good luck, and "don't give up!"

-- Betty Ferguson

254-3294



Illustrations are from Hitchcock et al., Flora of the Pacific Northwest; used with permission from the publisher.

#### Darlingtonia Sales Resurface!

NPSO members should be alerted that Darlingtonia plants may be showing up in some retail stores, under the name of Cobra Lilies. Evidently, a wholesale company in California is calling retail stores here in Oregon to interest them in selling these plants. Recently the Payless store in The Dalles offered Darlingtonia plants for sale at \$3.99 each. The store manager had received such a call, and unaware of our conservation concerns for this species, has purchased a supply to sell. Following the sale, the store manager was approached by a local NPSO chapter member and informed of the plant's sensitivity. Extremely difficult to propagate, Darlingtonia plants are likely scavenged from

the wild. They grow only in southern Oregon and northern California. A printed notice on the subject, bearing a local NPSO member's phone number and address, was provided to the store manager and he was most receptive to our information. In the future he said he would contact NPSO for our clearance or review prior to purchases of exotic and/or native plants for resale.

If any Darlingtonia show up in your area for sale, you can contact Susan Kofehl, Mid-Columbia Chapter, for copies of the notice on Darlingtonia, which was written several years ago by Dr. Rhoda Love to curb the sale of plants at the Open Market in Portland.

Reminder ...

Susan Kofahl still has a supply of NPSO pins and "Wildflowers of Oregon" posters for sale. The pins are \$2.00 each (including postage). Posters sell for \$4.00 each (\$4.95 when mailed) or can be purchased in lots of 10 for \$3.00 each plus postage.



ONRC'S 15th ANNIVERSARY CELEBRATION

The Oregon Natural Resources Council will celebrate its 15th anniversary at the 15th Annual Oregon Natural Resources Conference. The Conference will be at Malheur Field Station, in the high desert of southeast Oregon, Friday through Sunday, September 25 - 27. Conservationists, educators, sportsmen, political figures and the general public will participate in field trips, presentations, and strategy workshops concerning a variety of natural resource issues.

Congressman Peter DeFazio and Secretary of State Barbara Roberts will be the conference's honorary speakers. Topics to be addressed include: the Oregon Rivers Campaign, old growth forests, desert and forest wilderness, off-shore oil and gas leasing, the Oregon Endangered Species Act, the proposed Siskiyou National Park, Hell's Canyon, and much more.

The conference begins Friday morning (for those who can arrive early) with the choice of a field trip to Steens Mountain, a birding tour of the refuge, or an outing to the Alvord Desert. Saturday's agenda includes morning workshops, afternoon field trips and volleyball, an evening banquet and program, and a cut-the-cake-and-rug 15th year celebration. Sunday morning panels, featuring visions for Oregon conservation and the Oregon Rivers Campaign, will conclude by lunchtime.

Malheur Field Station, one of Oregon's most unique educational institutions, located within the Malheur Wildlife Refuge, is 20 miles southeast of Burns. It offers excellent birding opportunities, tasty meals and comfortable (dormitory-style) accommodations. For a conference brochure and registration information contact the ONRC's main office at 1161 Lincoln Street, Eugene, OR 97405 344-0675.

HARVEST FAIR '87 - PORTLAND

The Portland Chapter will have an exhibit at the OSU Extension Service Master Gardener Harvest Fair to be held at the World Forestry Center on Saturday, September 26, from 10am to 5pm and Sunday, the 27th, from noon to 5pm.

STATE COMMITTEE CHAIRS

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Campanula scouleri  
Drawing by Julie Kierstead

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 504 C Ave., LaGrande, OR 97850; 963-0674

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Membership Chair . . . . . Mary Falconer  
 1920 Engel Ave. NW, Salem, OR 97304; 585-9419  
 Membership in the Native Plant Society of Oregon is open  
 to all. Membership applications & changes of address  
 (including old address & zip code) should be sent to the  
 membership chair.

## BULLETIN

Editor . . . . . Jan Anderson  
 1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
 the 10th of the month & should be sent to the editor.  
 News, articles, photos, drawings, & non-copyrighted  
 materials are welcomed.

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  - \* author--specify whether byline is desired for news items
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## NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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( ) Student . . . . .	\$ 7.50	( ) Sustaining . . . . .	\$ 25.00
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 Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

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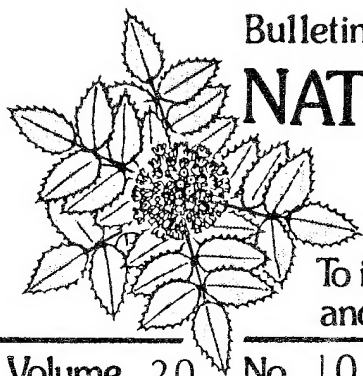


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Bulletin of the

# NATIVE PLANT SOCIETY of OREGON

To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 10

October 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

## CHAPTER NEWS

### Blue Mountain

20 Oct., Tues.

Meeting, 7:30pm. Blue Mountain Community College, Morrow Hall, Rm. 105. Agenda to be determined. For information contact Bruce Barnes (276-5547).

### Corvallis

- - - - -

For information contact Dan Luoma (758-8063).

### Emerald

12 Oct., Monday

Meeting, 8:00pm. Amazon Community Center, 2700 Hilyard, Eugene. "Searching the Cascades for Penstemon florabundus: A Member of the Snapdragon Family." Dave Danley from the Sun River Nature Center will entertain and inform you with his lively presentation.

9 Nov., Mon.

Meeting, 8:00pm. Amazon Community Center. "Pockets of Wildlands; Oregon's Research Natural Areas." Sarah Greene, a Research Forester, from the USFS will introduce you to the many special habitats that are being preserved in the NW.

14 Dec., Mon.

Christmas Social. Dessert Potluck and Slide Show.

### High Desert

- - - - -

For information, contact Joyce Bork (389-5579).

### Mid Columbia

7 Oct., Wed.

Join in a sharing experience!!! Meeting at 7:15pm in the Dalles at Pietro's Restaurant, 3320 West 6th Street. Cub Scouts from Pack 753, The Dalles, with leader, Ann Nesse, will show their native plant displays collected from the past season's field trips in the Columbia River Gorge. Then members of the Mid Columbia Chapter will show the Cub Scouts their photography slides of native plants. Come earlier, 6:30pm, for pizza and socializing.

### North Coast

1 Oct., Thur.

Meeting, 7:30pm. Oregon State Parks meeting room, 3600 Third St., Tillamook.

24 Oct., Sat.

Field Trip - Cape Lookout State Park. Meet at the day use parking lot at 2:00pm.

### Portland

3 Oct., Sat.

Field Trip: Fall color trip in Washington. Meet at 8:00am at the K-Mart on 122nd and Sandy. Second meeting place is at Yale State Park near Cougar, Wash. (Rest station is near.) at 9:00am. Drive 70 miles to an easy trail with 700 ft. elevation gain to 4,000 ft. in Sheep's Canyon on southwest St. Helen's. Leader is Carroll Dubuar (234-4135).

- 10 Oct., Sat. Field Trip to Cape Meares area (Tillamook). See historic light house, octopus tree and coastal hiking trails. Meet at 8:00am at the Safeway parking lot in Cedar Hills Shopping Center at the junction of Hwy. 217 and Hwy. 26 (Sunset Hwy.) Second meeting place at 9:45am is Cape Meares Parking Lot. Hike less than 3 mi. in coastal climax forest, mushrooms may be showing. Leader is Mary Lou Thomas (292-8260). For information call Charlene (284-3444).
- 13 Oct., Tues. Meeting, 7:00 pm. First United Methodist Church, 1838 SW Jefferson St., Portland. Nick Dodge will give a program on Silver Star Mountain in Washington.
- 17 Oct., Sat. Field Trip to the Mt. Hood area. Trail chosen will depend on weather conditions Meet at 8:30am at the K-Mart on 122nd and NE Sandy. Leader is Shep Wilson (228-7823).
- 24 Oct., Sat. Work Party at Tom McCall Preserve at Rowena area of the Columbia Gorge. Meet at the K-Mart at 7:30am, Second meeting place is 9:00am at Mayer State Park. This will be in cooperation with The Nature Conservancy. Bring lunches, water and work gloves. For information call 228-9561. Refreshments to follow at Susan Kofahl's house in Mosier. (See separate announcement.)
- 31 Oct., Sat. Field Trip in the Ramona Falls area. Meet at 9:00am at Heidi's Restaurant on Hwy. 26. Hike 6 mi. loop trail. See half buried conifers from prehistoric mountain slides. Leader is Maxine Wilson (655-1523).
- 7 Nov., Sat. Field Trip to see fall color along a portion of Trail #2000. Meet at 8:30am at the K-Mart on 122nd and NE Sandy. For information contact Charlene (284-3444).

## Siskiyou

- 8 Oct., Thur. Meeting, 7:30pm. Room 171, Science Building, SOS. The Nature Conservancy Preserve Steward, Cathy McDonald, will present a slide show of the flora and fauna of TNC's Preserves in Oregon, including local areas such as Eight Dollar Mtn. and Table Rock.

## Willamette Valley

- 19 Oct., Mon. Meeting, 7:30pm. First United Methodist Church, corner of SE Church and State Streets, Salem. (Use the Church Street entrance.) Lynn Glenn and Barbara Halliday of the Willamette Valley Chapter will present a slide program on "Utah Relatives of Oregon Great Basin Plants."

## Wm. Cusick

- - - - -

For information, contact Rachel Sines (963-0674).

### WORK PARTY AT ROWENA PRESERVE - Sat. October 24

Meet at 9:00am at Mayer State Park Viewpoint with lunch and gloves for a work party in cooperation with The Nature Conservancy effort to clean up dump sites on the Tom McCall Preserve. Refreshments will follow at Susan Kofahl's house, 2050 Mosier Creek Road. Call 478-3576 for more information.

### SAN JUAN ISLANDS IN THE SPRING? ? ? ?

The field trip chairman for the Portland Chapter, Charlene Holzwarth, would like to know how much interest there is in an NPSO field trip to the San Juan Islands north of Puget Sound, Washington, next spring (probably in March).

NPSO has never had a trip to this location, so it would be new territory for us. Members of any of the chapters and interested people are welcome to join us. Please contact Charlene if you are interested: 2524 NE 34th Ave., Portland, OR 97212 (284-3444).

### NATIVE ANEMONE MATERIAL NEEDED FOR RESEARCH

University of Michigan graduate student Sara Hoot is seeking seed and/or rootstock of certain species of Anemone as soon as possible. The material is needed for chloroplast DNA work and morphological studies of section Anemone. Species needed are: A. multifida var. hirsuta; A. multifida var. saxicola; A. drummondii var. drummondii; A. drummondii var. lithophila; and A. parviflora. Materials should be sent to: Sara Hoot, Dept. of Biology, University of Michigan, Ann Arbor, MI 48109-1048.



## Legislative Notes

STATE BOARD MEETING - October 17, Eugene

FEDERAL NEWS: Congress has resumed consideration of the Endangered Species Act reauthorization and appropriations. This a five-year reauthorization bill.

STATE NEWS: Both celebration parties for the passage of the Oregon Endangered Species Act were well attended by legislators, state agency personnel, and NPSO supporters. We were honored to have Secretary of State Barbara Roberts attend both the Portland and Corvallis celebrations.

Even though there are two years before the next legislative session, it is time to begin working on ammendments. We shall need to concentrate our efforts on a few key issues. I am planning the next legislative meeting for:

\*\*\*\*\*

Saturday, November 7th  
Forestry Sciences Laboratory  
3200 Jefferson Way  
Corvallis  
1 p.m. - 4 p.m.

\*\*\*\*\*

The agenda has not been set for the meeting and I encourage you to send me ideas on ammendments. I am especially interested in any ideas on funding the program. Contact me if you are interested in attending the meeting. (754-0893)

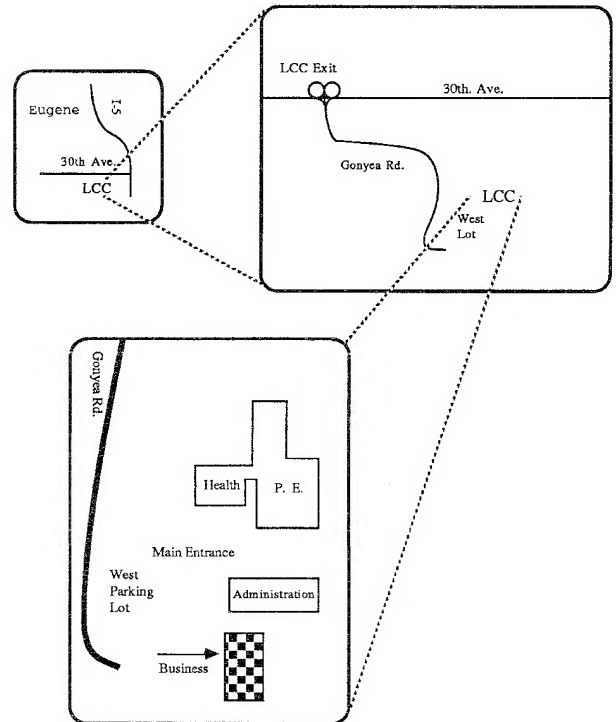
*Esther*

Esther Gruber McEvoy  
State Legislative Chair

### PACIFIC NW FOREST MANAGEMENT MEDIA WORKSHOP

This conference will be held at the Sheraton Inn at the Portland Airport on Sat. October 10. Presentations will be given on Forest Ecology and Management topics. There will be tours for those interested on Friday and Sunday of that weekend. Sponsors are the National Wildlife Federation, National Audubon Society, Oregon Natural Resources Council, and Portland Audubon Society. For more information, please call the National Wildlife Federation at 503/222-1429 or ONRC at 236-9772.

NPSO BOARD MEETING  
Business Ed. Building, Rm. 212  
Lane Community College, Eugene, Ore.  
Saturday, October 17, 1987 11:00 am



### ATTENTION COLUMBIA GORGE LOVERS

The following are addresses to which you might write to acquire the following pertinent publications.

"A Study of the Historic Columbia River Highway 1987"  
Jeanette Kloos  
Regieon 1 Office, Oregon State Parks  
3554 SE 82nd Avenue  
Portland, OR 97266

"Columbia River Gorge National Scenic Area--Final Interim Guidelines--1987"

USDA Forest Service  
Columbia River Gorge National Scenic Area  
902 Wasco Ave.  
Hood River, OR 97031

By Stuart Garrett (High Desert Chapter)

Many Oregonians take our native plant species for granted. They assume that our plant communities have always existed as they currently do and always will. However, on a geological time scale the distribution of vegetation and the types of plants will vary greatly. In Oregon, geologic factors have played a major role in these changes. Some of the changes were gradual while others were cataclysmic.

A partial listing of these geologic occurrences over the last 150 million years in Oregon ( which includes the time-span for the evolution of flowering plants ) would include:

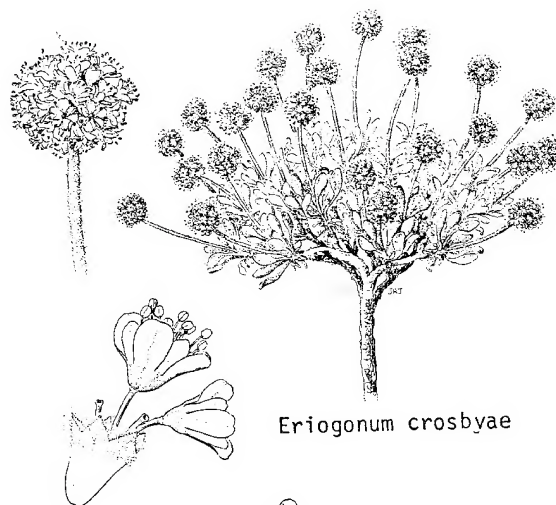
- The erosion and formation of major mountain ranges such as the Cascades.
- The extensive eruption of the Columbia River Flood Basalts.
- Major fluctuations in sea level.
- The astonishing Bretz Floods through the Columbia River Gorge.
- Glacial advance and retreat over the Cascades and other areas.
- The rafting and attachment of foreign parts of the earth's crust to the coast.
- Extension and faulting of southeastern Oregon in the basin and range province.
- Volcanic eruptions such as Mount Mazama.
- The formation of vast inland seas.
- Erosion of unusual rocks which left behind atypical soils.

All of these occurrences have left a legacy of modern plants which are struggling to adapt to a new environment. New species are evolving to meet changing conditions while older species are disappearing because they can no longer survive the changing environment. Let us examine some specifics.

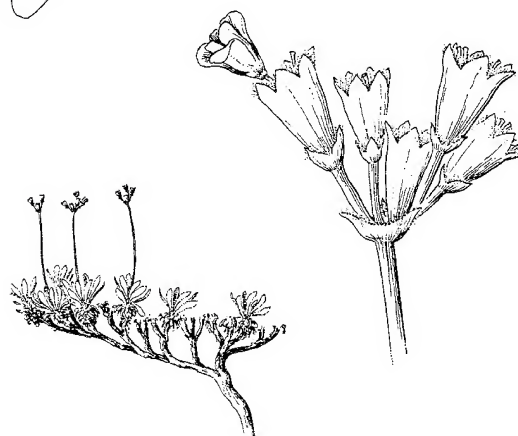
The most obvious effect of Oregon's geology on its plant geography is the division of the state into "wet" and "dry" sides by the Cascade Range. This geologically recent botanical division has important economic and cultural consequences for all Oregonians. Changes in climate and rainfall are responsible for Oregon's most famous endemic plant - the Redwood.

An endemic plant is a plant that is restricted to a particular geographic locality. Once found over much of the state in warmer and moister times, it is now limited to a narrow strip along Oregon's southern coast.

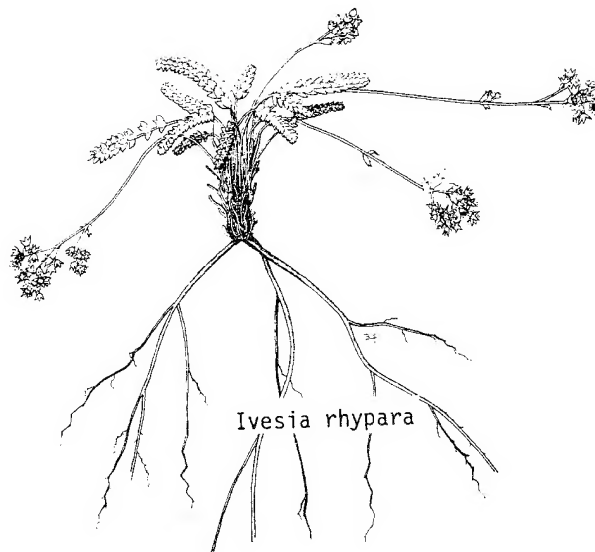
Just inland from this area is an accumulation of unusual serpentine soils in the Klamath Mountains. This area supports Oregon's largest collection of rare plants. Plants growing in these soils have adapted to the high levels of metals such as iron and magnesium found in them. Species such as the Koehler's rockcress, racemed goldenweed, Howell's mariposa lily, Vollmer's lily, Purdy's levisia, Western bog aster and others are not found elsewhere in the state.



*Eriogonum crosbyae*

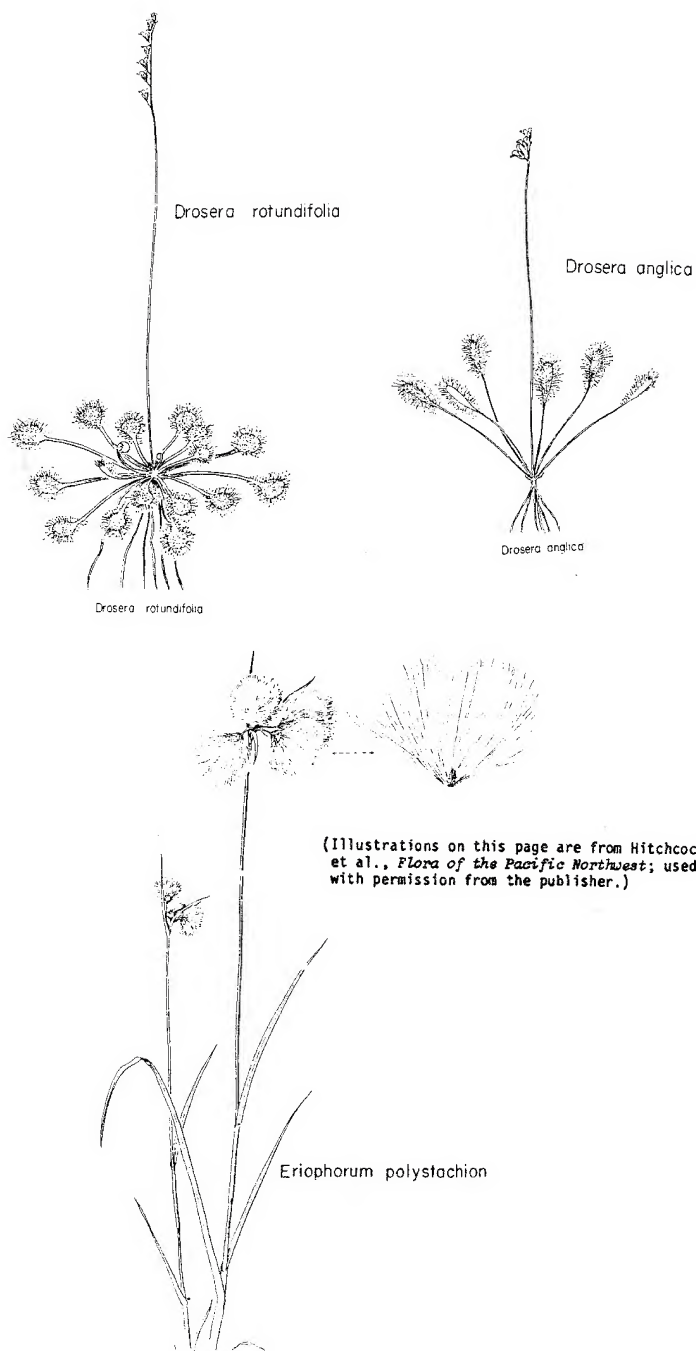


*E. cusickii*



*Ivesia rhypara*

(Illustrations from Threatened and Endangered Vascular Plants of Oregon: An Illustrated Guide.)



(Illustrations on this page are from Hitchcock et al., *Flora of the Pacific Northwest*; used with permission from the publisher.)

Further to the east in Southern Oregon we enter the basin and range province. Extension of the earth's crust for the last 17 million years has created unusual habitats for plants. Oregon's only true biologic deserts are found here. They harbor Mormon tea, greasewood, salt brush and other plants able to tolerate the alkaline conditions of southeastern Oregon's deserts.

The low elevation non-desert areas here support Crosby's buckwheat, Cusick's lupine, Columbia cress and Cusick's buckwheat. In the high mountains are found relict populations of plants that remain after the retreat of the glaciers. These include Steen's Mountain paintbrush, golden buckwheat and Steen's Mountain thistle.

In far southeastern Oregon lie the Owyhee Uplands. Areas such as Leslie Gulch show the remnants of this area's violent volcanic past. The tuffaceous and rhyolitic rocks and soils in this area harbor Packard's mentzelia and grimy ivesia, whose range includes adjacent Idaho.

The Blue Mountains are home to a variety of older marine rocks which are remnants of the oceans that once covered Oregon. In the Wallowas we find fraternal paintbrush, Greenman's lomatium and dwarf golden-daisy which are only found in northeastern Oregon.

The John Day Valley volcanics are home to three endemic species. The volcanic ash in the area grows yellowhaired paintbrush, John Day chemactis and John Day cinquefoil.

The vast eruptions of Columbia River basalts which flooded eastern Oregon and eastern Washington in Miocene times now cover northeast Oregon with thousands of feet of lava. Their erosion can leave a characteristic biscuit-scabland topography which is home to the Tygh Valley locoweed, obscure buttercup and the umbellate spring beauty.

The Columbia River Gorge is the only sea-level passage through the Cascades. Both northern and southern species reach their limits here. Some plants are left from the retreat of the Ice Age and the only other place they are found is on alpine peaks. Some plants are found only in the gorge. Barrett's penstemon, Howell's bentgrass, gorge daisy and long-bearded hawkweed belong in this last category.

The eruption of volcanoes such as Mount Mazama, South Sister and Newberry has mantled Central Oregon with pumice. Peck's penstemon, the Oregon moonwort, Crater Lake rockcress and the Mount Mazama collomia are found only in this region and nowhere else in the world.

The retreat of the glaciers in the Cascade Range has left a series of bogs which contain remnants of a now more northerly biota. Arctic birch and cottongrass are some examples.

Changes in sea level on the coast have left boggy areas which support not only the rhododendron and Sitka spruce but also the insect-eating sundew plant and the rare carnivorous pitcher plants.

The alpine areas of the high Cascade peaks in recent geologic times have seen the retreat of the glaciers and now support sparse vegetation. Plants limited to these sometimes soilless areas include silvery raillardella, Cascade aster, Cascade smelowskia and golden alpine draba.

The relationship of Oregon's geology to its native plant life is not always obvious. It is, however, very important to our everyday lives and is fascinating in its complexity.

(This article was published in the April 16, 1987 issue of the Oregonian.)



## RESTORING THE EARTH CONFERENCE. . .1988

The first national gathering to consider the restoration of all natural resource types and the redesign of urban areas will be held on January 13-16 at the University of California, Berkeley. The conference is organized by the Restoring the Earth project of The Tides Foundation, San Francisco, and cosponsored both by the College of Natural Resources and the Center for Environmental Design Research of the University of California, Berkeley. It will bring experts in natural resource restoration and management together with a broad selection of academic, government, industry, foundation, labor, public health, and environmental representatives. Participants will help create new solutions to the nation's environmental problems, through restoration of damaged resources.

Topics to be covered include restoration of coastal ecosystems and estuaries; rivers and lakes; streams and fisheries; rangelands, prairies, mined lands, forests and wildlife; atmosphere and climate; dry lands and agricultural lands; urban environmental planning; and control of toxic wastes. Formal refereed papers will be presented at scientific and technical sessions. Non-technical sessions will include accounts of restoration successes and discussions of policy issues, legislation, litigation, trends and resource conflict resolution. The program also includes keynote panels, plenary sessions, workshops, films, and exhibits.

Information is available from: Restoring the Earth Conference, 1713 C Martin Luther King Jr. Way, Berkeley, CA 94709, or telephone (415) 843-2645.

## WELCOME NEW MEMBERS

### CORVALLIS

Carolyn Paynter

### HIGH DESERT

Bob Buscher  
Judith Clements  
Caroline Lindstedt

### PORTLAND

Linda Hoffman

### SISKIYOU

Paul & Virginia Lemon  
Loren Wittenberg

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Cornus canadensis  
by Julie Kierstead

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Conservation Chair . . . . . Julie Kierstead  
11505 SW Summerville, Portland, OR 97219; 636-4112  
Legislative Chair . . . . . Esther McEvoy  
3290 SW Willamette, Corvallis, OR 97333; 754-0893

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Herbarium, OSU, Corvallis, OR 97331; 754-4106  
Emerald (Eugene area) . . . . . Gail Baker  
2424 Harris St., Eugene, OR 97405; 344-0312  
High Desert (Bend area) . . . . . Joyce Bork  
640 NW Broadway, Bend, OR 97701; 389-5579  
Mid Columbia . . . . . Keith Chamberlain  
Box 151, Mosier, OR 97040; 478-3314  
North Coast . . . . . Clara Fairfield  
7305 Whiskey Creek Rd., OR 97141; 842-4362  
Portland . . . . . Herb Armentrout  
20060 SE Hwy 224, Clackamas, OR 97015; 658-2751  
Siskiyou . . . . . Wayne Rolfe  
311 High St., Ashland, OR 97520; 482-0093  
Willamette Valley (Salem area) . . . . . Pat Rogers-Rochina  
14382 Marion Road, Turner, OR 97392; 769-4669  
Wa. Cusick (LaGrande Area) . . . . . Rachel Sines  
504 C Ave., LaGrande, OR 97850; 963-0674

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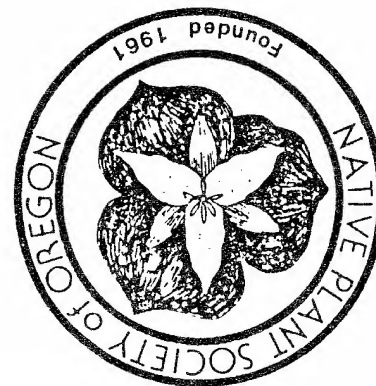
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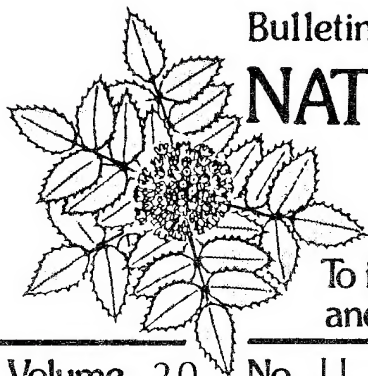


Native Plant Society of Oregon  
1960 NW Lovejoy #2  
Portland, OR 97209

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Meeting, 8:00pm. Amazon Community Center, 2700 Hilyard, Eugene. "Pockets of Diversity: Oregon's Research Natural Areas." Sarah Greene, a Research Forester from the USFS, Corvallis, will introduce you to the many special habitats that are being preserved in the Northwest.

14 Dec., Mon.

Christmas Social. Dessert Potluck and Slide Show. The holiday social will be at Island Lakes Condominium Club House at 7:30pm. Bring a Christmas dessert to share and 6 - 10 slides to show. Call Charlene for more information (465-1059).

### High Desert

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For information, contact Joyce Bork (389-5579).

### Mid Columbia

4 Nov., Wed.

Meeting, 7:30pm at the Mosier School. Program feature: The Nature Conservancy Preserves in Oregon, Current and Potential. Slides and speaker(s) will focus on the preserves' unique characteristics including special vegetation, wildlife, and habitat.

2 Dec., Wed.

Meeting, 7:30pm at the Hood River Valley High School's "Little Theater", 1220 Indian Creek Road, Hood River. Peter Frenzen of the Mt. St. Helens Ranger District Office at Amboy, Washington, will present a program on the "Rejuvenation of Mt. St. Helens - The Wildlife and the Vegetation Comeback!" Don't miss this special presentation!

### North Coast

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For information, contact Clara Fairfield (842-4362).

## Portland

- 7 Nov., Sat. Field Trip to the Columbia River Gorge. Meet at the K-Mart at 122nd and NE Sandy, south end of the parking lot at 8:30am. Leader: George Lewis (292-0415).
- 10 Nov., Tues. Meeting, 7:00pm. First United Methodist Church, 1838 SW Jefferson St., Portland. Dave Dobak will present a slide show on "Yellowstone - Summer and Winter".
- 14 Nov., Sat. Field Trip. Explore three lakes in the Battleground area of Washington. There will be a bus available to take us. Advance sign up is necessary. Meet at the Jantzen Beach parking lot near the NW end at 9:30am. Leaders: Mr. & Mrs. John Bonebrake. Bring warm clothes, lunch and thermos. Return: Mid-afternoon. For information, call Charlene (284-3444). We shall discuss geological features and the botanical aspects.
- 21 Nov., Sat. Field Trip to the Partridge Tract, a TNC property with a short hike to the stream and a view of a lovely waterfall. Depending on the weather, a car shuttle may be arranged for those hikers who wish to follow the stream. Meet at the K-Mart on 122nd and NE Sandy at 10:00am. Leader: Katherine Snouffer (246-6572).
- 4 & 5 Dec. Leach Garden Winter Display & Bazaar at 6704 SE 122nd Avenue. Take Foster exit from 205 and proceed east to 122nd, then turn south for a short drive to the white bridge crossing Johnson Creek.
- Happy Holidays from your field trip friends. A special thanks to Louise Godfrey for her advice and counsel.

## Siskiyou

- 12 Nov., Thur. Meeting, 7:30pm. Room 171, Science Building, SO30. Local Weaver of over 20 years, Molly Hanner, will present a unique program on wool dyes and native plants. Molly will share the charm of gathering and working with plants as a source of dye and which plants (and plant families) yield which colors. She will also cover conscientious collecting techniques. Samples will be available of wools dyed from plants as well as the plants themselves. Bring questions and your own experiences.

## Willamette Valley

- 16 Nov., Mon. Meeting, 7:30pm. First United Methodist Church, corner of SE Church and State Streets, Salem. (Use the Church Street entrance). Dan Luoma, President of NPSO, is studying mycorrhizal relationships for his Ph.D. He will present a program on "The Mysteries of the Monotropoideae." Don't miss it!

## Wm. Cusick

- - - - -

For information, contact Rachel Sines (963-0674).

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### NPSO RECEIVES AWARD

The Native Plant Society of Oregon received the Oregon Natural Resources Council's Organization of the Year award for its role in passing the Oregon Endangered Species Act of 1987. The award was presented by ONRC's Associate Director for Conservation, Andy Kerr, in a ceremony during the fifteenth annual ONRC Conference at Malheur Field Station. Special note was made of the efforts of NPSO Legislative Chairman Esther McEvoy and Conservation Chairman Julie Kierstead. Kierstead, who presented a workshop on the new law earlier in the day, accepted the award on behalf of NPSO. The award itself, an attractive mounted certificate in blue and white, will be presented to NPSO's Board of Directors at its October meeting.

### NEW BOOK AVAILABLE

Conservation and Management of Rare and Endangered Plants, Proceedings of a California Conference, edited by Thomas S. Elias, with an introduction by Jim Nelson, is just off the press! Advance orders are now being shipped. The 640 page, 8½ by 11 inch volume is an outstanding topical collection of papers presented at the California Native Plant Society Symposium in Sacramento last November. This was the largest conference on rare and endangered plants ever held in North America.

Copies are available from CNPS at \$24.95 for softbound and \$45.00 for hardbound. Payment must accompany orders and include CA sales tax as required plus shipping at \$1.75 for the first copy, \$.75 for each additional copy. Mail to: California Native Plant Society, 909 Twelfth Street, Suite 116, Sacramento, CA 95814.

## Legislative Notes

Even though there are two years before the next legislative session, it is time to begin working on amendments. We shall need to concentrate our efforts on a few key issues. I am planning the next legislative meeting for:

\*\*\*\*\*

Saturday, November 7th  
Forestry Sciences Laboratory  
3200 Jefferson Way  
Corvallis  
1 p.m. - 4 p.m.

\*\*\*\*\*

The agenda has not been set for the meeting and I encourage you to send me ideas on amendments. I am especially interested in any ideas on funding the program. Contact me if you are interested in attending the meeting. (754-0893)

*Esther*  
Esther Gruber McEvoy  
State Legislative Chair

### ENDANGERED WILDFLOWERS - 1988 CALENDAR

These calendars will once again be available for 1988. They feature full color photographs of 16 American wildflowers that are threatened or endangered. This wall calendar is 8½ by 23 inches when open. Each photograph is accompanied by a discussion of the taxon and the factors that cause it to be threatened. Also included is general information on endangered plants. The price is \$6.95. Order from: American Horticultural Society, P.O. Box 0105, Mount Vernon, VA 22121

### POSITION AVAILABLE

Information Systems Manager  
Center for Plant Conservation, National Office  
in Boston

Responsibilities: Provide support to the Director of Botany and Information Systems. Duties will include some systems design and programming as well as data entry (especially while learning the computer system). The Information Systems Manager will serve as liaison between the data system and the staff and provide continuity in the absence of the Director of Botany and Information Systems. S/he will be working with nine relational databases and will assist in the development of compatible plant records systems among the Participating Institutions of the Center. The Center for Plant Conservation, located at the Arnold Arboretum, was created in 1984 to develop and maintain a network of programs at leading botanical gardens and arboreta dedicated to the preservation and study of U.S. endangered plants. Currently the Center's network includes 19 botanical gardens and arboreta working to preserve and propagate some 3,000 kinds of rare and endangered plants nationwide.

Qualifications: Strong botanical training and some experience or training on a computer (especially a micro) necessary.

Salary: \$17,000 to \$20,000.

To Apply: Send letter of application, resume, and names of three references to Pamela Thompson, Administrative Manager, Center for Plant Conservation, 125 Arborway, Jamaica Plain, MA 02130. For more information call (617) 524-6988.

### A GUIDE TO SELECTED WEEDS OF OREGON IS AVAILABLE

The Oregon Department of Agriculture has published a 106 page loose leaf manual of 289 color photos and text depicting 96 different weeds which present problems to agriculture and other activities. It was prepared by Robert Hawkes, Tom Whitson and LaRea Dennis. The book costs \$12 and can be ordered from Weed Control, Oregon Dept. of Agriculture, 635 Capitol Street N.E., Salem, OR 97310-0110.

### WELCOME NEW MEMBERS

BLUE MOUNTAIN  
Rob Mrowka

CORVALLIS  
John Knott  
Jane Smith

EMERALD  
Marjorie Ogle  
Stephanie Schulz

HIGH DESERT  
Susie Kurtz

MID COLUMBIA  
Lucile Wyers

NORTH COAST  
F.L. Skip Cockerun

PORTLAND  
Harriet Denison  
Kristine Elkin

SISKIYOU  
Kathy Adams  
Bandon Public Library  
James Robinson  
Marjorie Stober

WILLAMETTE VALLEY  
Frank & Lois Haskins  
Ann K. Lamb

MEMBER AT LARGE  
Robert Moses



# Wildflowers in the Garden

This article was published as a pamphlet by the Plant Conservation Project, Natural Resources Defense Council, 1350 New York Ave., N.W., Suite 300, Washington, DC 20005.

## Introduction

Many gardeners love to grow our beautiful and interesting native wildflowers. Unfortunately, if we are not careful, our love for these plants can lead to overexploitation that can decimate the species in the wild.

Over-exploitation is a problem because many wildflowers offered for sale by mail-order catalogs, nurseries, and garden centers have been collected from the wild rather than propagated in nurseries. Wildflowers offered for sale by general purpose catalogs and garden centers are particularly likely to have been collected rather than propagated because these outlets must buy their merchandise in wholesale quantities from a variety of suppliers. Smaller nurseries that specialize in wildflowers can often propagate the plants they sell — although not all do so.

Most gardeners will wish to ensure that their own purchases do not contribute to depletion or extinction of a wild species — especially one that they admire enough to plant in their gardens! Many gardeners may wish to avoid purchasing any wild-collected plants — especially since most can be obtained from propagators if one makes a little effort. Unfortunately, little is known about commercial trade in North American wildflowers; many gardeners may not even be aware that plants they see in catalogs and retail outlets may have been collected. Natural Resources Defense Council has begun a study of this trade in order to learn its extent and impact on particular species and to educate gardeners.

Other types of plants are also often collected from the wild, but they are not addressed in this brochure. These include ferns, shrubs, carnivorous plants, and cacti and other succulents.

Wildflower species almost always collected from the wild (most can be propagated by specialists)

Species	Number of Catalogs Offering
pink ladyslipper orchid <i>Cypripedium acaule</i>	8
large-flowered (snow) trillium <i>Trillium grandiflorum</i>	13
Jack-in-the-pulpit <i>Arisaema triphyllum</i>	19
Dutchmen's breeches <i>Dicentra cucullaria</i>	
crested iris <i>Iris cristata</i>	15
bloodroot <i>Sanguinaria canadensis</i>	18

## Impact of the Trade

Although we do not yet know the size of the trade in wildflowers, it is clearly quite large and involves hundreds of species. At least 50 nurseries offer wildflowers through mail-order catalogs. Many other plants are sold by retail nursery and garden centers. Some wildflowers are sold nationwide as roots or corms packaged in plastic bags with a cardboard cover showing an attractive photograph of the plant in habitat. It is probable that several hundred thousand plants of the most popular species are sold each year through these various mechanisms. The trade in seeds, primarily of prairie species, must reach the millions. Unfortunately, some of the most popular species are nearly always collected from the wild rather than propagated. The pink ladyslipper orchid is one example. No one has yet discovered how to propagate this lovely flower in commercial quantities. Yet it is sold by 8 mail-order catalogs, including those with the largest circulations; and by virtually every retailer that handles wildflowers, either directly or as an outlet for the plastic packages. According to records examined by law enforcement officials, in the 1970's one Michigan couple supplied up to 100,000 ladyslipper orchids per year to retailers — all wild-dug in the area.

Ladyslipper orchids are not considered endangered in the United States or Canada, although some species are protected in particular states or provinces. However, orchids and certain other types of plants are extremely vulnerable to overcollecting because of their ecological requirements and life histories. Other vulnerable types include members of the following families: Portulacaceae (including the *Lewisia*

Wildflowers that can be propagated in commercial quantities, but are often collected

Virginia bluebells <i>Mertensia virginica</i>	12
cardinal flower <i>Lobelia cardinalis</i>	19
fairy candles <i>Cimicifuga</i> species	
shooting stars <i>Dodecatheon</i> species	12 +
trout lilies or dogtooth violets <i>Erythronium</i> species	7 +
<i>Hepatica</i> species	10 +
bird's-foot violet <i>Viola pedata</i>	8

It is not yet known to what extent members of the composite or aster family are obtained by collecting seed from the wild, rather than from cultivated sources.

and *Claytonia* genera); violets; Amaryllidaceae (including *Brodiaea* and *Triteleia*); Araceae (Jack-in-the-pulpit), gentians; lilies; Ranunculaceae (including columbines and larkspurs); and the parasitic plants, such as the Indian paintbrushes, *Castilleja*. Collecting of these and other vulnerable plants may well cause severe population declines, at least in local areas.

Among the approximately 600 species of North American herbaceous wildflowers sold by the 46 catalogs surveyed, only the Tennessee cone flower, *Echinacea tennesseensis*, is now listed under the U.S. Endangered Species Act. The plants in trade are presumably propagated.

The Nature Conservancy has assigned ranks of either G-2 or G-3 to at least two dozen additional species. The former includes species found in only 6 to 20 occurrences or subject to other factors making them very vulnerable throughout their ranges. Species labeled as G-3 are either very rare throughout an extended range, restricted to a small range, or threatened by other factors; these species are limited to 21 to 100 occurrences. Among the species classified as G-2 or G-3 are a white monkshood, *Aconitum reclinatum*; Oconee bells, *Shortia galacifolia*; the lakeside iris, *Iris lacustris*; a shooting star, *Dodecatheon poeticum*; royal catchfly, *Silene regia*; and the yellow mission-bells, *Fritillaria pudica*.

Many of the more widespread species are considered by The Nature Conservancy or Canadian botanists to be rare in certain states or provinces. If these areas of rarity happen to coincide with centers of heavy collecting pressure—such as the southern Appalachians and the northern Mid-West—local populations of the species may be particularly vulnerable.

Many attractive plants sought for the horticultural trade are also collected—often in very large quantities—for human consumption or as “medicinals.” This trade, very poorly studied, is known to include ladyslipper orchids, mayapple, bloodroot, golden seal (*Hydrastis canadensis*), wild leek (*Allium tricoccum*), and ginseng (*Panax quinquefolius*).

## Other Considerations

### Poor Survival

Many wildflowers are difficult to re-establish in the garden once they have been dug from the wild. This is particularly true of ladyslipper orchids, which depend on soil micro-organisms to process nutrients. They rarely live long after transplanting, even when it is done promptly by experts. Other types of plants that do poorly when removed from the wild include gentians; hepaticas; bloodroot and other Papaveraceae; Dutchmen's breeches, squirrel corn and others of the Fumaraceae; and the parasitic Indian paintbrushes.

Even more easily satisfied plants may die if they are allowed to dry out during storage and shipping, as often occurs in the larger establishments that depend on contractual suppliers. Why waste your money on plants that will probably die?

### Invasive Exotics

Another complication is the danger of helping to spread invasive, weedy plants into new environments where they may cause severe disruption. Commercial mixes of “wildflower seed” often contain species native to Europe, some of which have become severe problems—for example, purple loosestrife. Other mixes contain species native to other parts of the United States which could become weeds if introduced into other parts of the country. Please try to limit your purchases to seeds of species which are native to your local area, so that you do not disrupt native ecosystems this way either.

## Legal Protection

Legal protection for wildflowers in trade is inadequate. In the United States, the U.S. Endangered Species Act prohibits collecting from federal lands only, not other lands; and requires a permit for interstate commerce in propagated plants. At present, only one species, the Tennessee cone-flower, is protected under this Act. A few other species may be listed in future years.

Many of the wildflower species in trade are protected by law in some states. In general, these laws regulate commercial trade and collecting without permission of the landowner. These laws are supplemented by the federal Lacey Act, which outlaws interstate trade or export of native wild plants collected or possessed in violation of the law of the state of origin. So far, dealers in orchids (as well as ginseng and cacti) have been convicted under this law.

Several species of wildflowers are traded internationally. Orchids, trilliums, *Erythronium* lilies, and other species have been exported to The Netherlands and perhaps elsewhere. Plants may be collected in Canada to supply the U.S. market.

International trade is regulated by the Convention on International Trade in Endangered Species of Wild Fauna and Flora, called CITES. At present, CITES protects all orchids, a few other wildflower species, and ginseng. CITES allows trade in such species, listed in Appendix II, but only after the country of export has determined that the trade will not harm wild populations of the species and has issued a permit. Despite CITES, Canada reports no exports of ladyslipper orchids, but they may be occurring. For more information about CITES, write to NRDC and ask for the brochure “Your House Plants Are...”

*Continued on page 104*

## What You Can Do

If you wish to help conserve North American wildflowers in their native habitats, refrain from collecting such plants yourself, and buy only from those who propagate. One good source is sales of propagated plants sponsored by native plant societies. Many nurseries now propagate native plants, even such difficult species as large-flowered trillium. To obtain lists of nurseries that propagate the plants they sell, contact the native plant society in your state or the following centers:

American Horticultural Society  
P.O. Box 0105  
Mt. Vernon, VA 22121

New England Wild Flower Society  
Hemenway Road  
Framingham, MA 01701

North Carolina Botanical Garden  
University of North Carolina  
Totten Center 457-A  
Chapel Hill, NC 27514

Virginia Wildflower Preservation Society  
P.O. Box 844  
Annandale, VA 22003

National Wildflower Research Center  
2600 FM 973 North  
Austin, TX 78725

Wildflower species are threatened by habitat loss even more than overcollecting. To help promote conservation, join interested national conservation organizations and the native plant society in your area.



*Plant Conservation Project*  
*Natural Resources Defense Council*  
1350 New York Avenue, N.W., Suite 300  
Washington, DC 20005

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### STATE COMMITTEE CHAIRS

NPSO Wildflower Posters & Pins . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR 97040; 478-3576

Notecards . . . . . George Lewis  
8230 SW Cashmur Lane, Portland, OR 97225; 292-0415

T-Shirts . . . . . Nadine Smith  
1128 Jackson St., Eugene, OR 97402; 344-6478

### ALPINE MIGRANTS ON MOUNT ST. HELENS

How geological events affect the distribution of plant species was a subject fresh in our minds at the time of Portland Chapter's field trip on Oct. 3. (We had read Stuart Garrett's article in the current Bulletin).

At Sheep Canyon, on the west side of Mount St. Helens, we noticed two plants that evidently were swept into new habitats by mudflows during the eruption of May 18, 1980. This narrow ravine, once heavily forested, was deeply scoured and the vegetation is returning slowly to the steep canyon walls.

On the overlook plateau where we lunched, elevation just under 4,000 ft., Lupinus lepidus var. lobbii was plentiful, somewhat lower on the mountain than usual.

A little higher along the trail were half a dozen plants of Collomia debilis var. larsenii, recognized by its distinctive foliage and typical phlox-family seed capsules. The seed had already dispersed, so perhaps there will be more another year (and probably there are more now than we observed). We see the lovely mound of gray-green foliage and pale violet flowers on Mt. Adams at about 7,000 ft.

Will these transplants survive at this lower elevation? Both are alpenines of open scree. We should watch for them, from year to year, as the surrounding forest moves back to reclaim its once-green canyon.

Please put Sheep Canyon on your futures list. Thanks to our leader that day, Carroll Dubuar, it's a trip we'll gladly repeat next season.

From I-5, exit at Woodland to Hwy. 503, continue past Yale Park and turn north on Rd. 81, then north on Rd. 8123 to the signed Toutle Trail No. 238. Roads are paved almost all the way.

The trail follows an easy grade past Blue Lake, through a varied forest including some fine old-growth silver fir and noble fir, and in about three miles brings you to the stark view of what happened to the upper drainage of the Toutle River seven years ago. Along the way, the occasional seepages, dry banks and open slopes suggest a fine plant list for early and mid-summer. And with more diligent search, you may find other migrants from above timberline.

--Louise Godfrey



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63820 Quail Haven, Bend, OR 97701; 382-2255  
Directors . . . . . Don Eastman, Julie Kierstead, Barb Fox,  
Esther McEvoy, Russ Holmes, Dave Gross  
R/E Chair . . . . . Jean Siddall  
535 Atwater Rd., Lake Oswego, OR 97034; 636-4633  
Conservation Chair . . . . . Julie Kierstead  
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2424 Harris St., Eugene, OR 97405; 344-0312  
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7305 Whiskey Creek Rd., OR 97141; 842-4362  
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Siskiyou . . . . . Wayne Rolle  
311 High St., Ashland, OR 97520; 482-0093  
Willamette Valley (Salem area) . . . . . Pat Rogers-Roschna  
14382 Marion Road, Turner, OR 97139; 769-4669  
Wm. Cusick (LaGrande Area) . . . . . Rachel Sines  
504 C Ave., LaGrande, OR 97850; 963-0674

# MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
Membership in the Native Plant Society of Oregon is open  
to all. Membership applications & changes of address  
(including old address & zip code) should be sent to the  
membership chair.

# BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 248-9242

The NPSO Bulletin is published monthly. Copy is due by  
the 10th of the month & should be sent to the editor.  
News, articles, photos, drawings, & non-copyrighted  
materials are welcomed.

# GUIDELINES FOR CONTRIBUTORS

The Bulletin is not typeset; therefore typed,  
camera-ready copy is much appreciated. But  
no submission will be rejected because it is  
not typed. Please proofread & check facts.  
DEADLINE: 10th of each month

FORMAT: Copy should be typed in 4 1/4 inch wide  
columns, of any length. Author's name & chap-  
ter affiliation (or other organization) are  
typed at the end of the article. There is no  
standard paragraph treatment; one of these  
is suggested:

\* for long articles, double space between  
paragraphs, but do not indent the first  
word of the paragraph

\* for short articles or short paragraphs,  
when double spacing looks odd, indent  
the first word of the paragraph instead

Type your own headline, centered, all caps.  
In case of special formats, e.g. plant keys,  
you are free to choose the layout.

CREDITS: For each submission, provide

\* title

\* author--specify whether byline is desired  
for news items

\* instructions as to whether item is to be  
used in entirety or excerpted at editor's  
discretion

\* source & date if item is not original

ILLUSTRATIONS: black & white prints, ink  
drawings, woodcuts, halftones, et al. We  
welcome small doodles as well as larger  
efforts. Please give source & date, if not  
original.

SCIENTIFIC NAMES should follow Hitchcock &  
Cronquist's Flora of the Pacific Northwest  
where possible. Use of both scientific &  
common names is encouraged. Genus & species  
names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustra-  
tions will not be returned unless it is  
requested.

The Bulletin is published as a service to  
NPSO members & the public. Your suggestions  
& comments are always welcome.

# # #

# NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

CHAPTER (if known) \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

IS THIS A CHANGE OF ADDRESS? If so please  
write your OLD ADDRESS: \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\* DUES include monthly news bulletin. Full membership runs from January through December. Quarter member-  
ship runs from September through December.

( ) NEW

( ) QUARTER MEMBERSHIP (\$2.50)

( ) RENEWAL

( ) Student . . . . . \$ 7.50

( ) Regular . . . . . 10.00

( ) Family membership . . . . . 15.00

( ) Sustaining . . . . . \$ 25.00

( ) Patron . . . . . 100.00

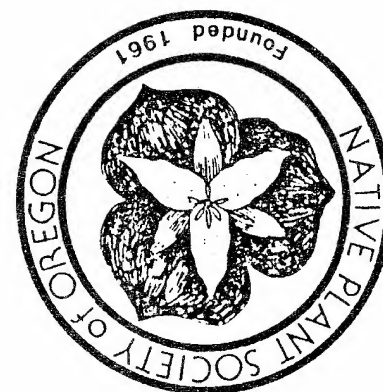
( ) Life member . . . . . 500.00

# \*CONTRIBUTIONS:

Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_  
Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

\*All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible.  
Please make checks for dues & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form  
& full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.

TIME DATED MAIL

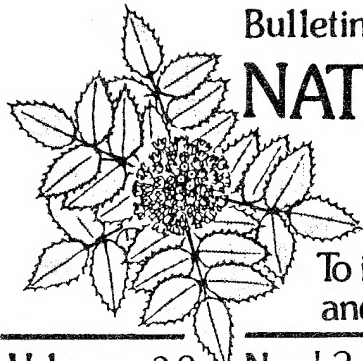


Native Plant Society of Oregon  
1960 NW Lovejoy #2  
Portland, OR 97209

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To increase the knowledge of members and public in identification  
and conservation of the native plants of the Pacific Northwest

Volume 20 No. 12

December 1987

ISSN 0884-5999

1987 The Year of the Oregon Endangered Species Act

NEW ADDRESS FOR THE EDITOR

The NPSO Editor, Jan Anderson, has moved to a new address. Please make note of the change for future correspondence. The new address is 2584 NW Savier Street, Portland, OR 97210. The phone number remains the same 248-9242.

## CHAPTER NEWS

### Blue Mountain

- 19 Jan., Tues. Meeting, 7:30pm. Blue Mountain Community College, Morrow Hall, Rm. 105. Bob Wilson will give a presentation on California wildflowers.
- 16 Feb., Tues. Meeting, 7:30pm. EMCC, Morrow Hall, Rm. 105. Karl Urban will discuss the locations of R/E species in our area; and we will plan field trips for the year.
- 15 Mar., Tues. Meeting - time and place to be determined; possible joint meeting with the LaGrande chapter.

### Corvallis

- 14 Dec., Mon. Dessert potluck and slide show at 7:30pm at Angie Ruzicka's home at 3925 Fairhaven (754-8227). Bring 10 of your favorite slides and your favorite dessert.

### Emerald

- 14 Dec., Mon. Christmas Social, 7:30pm. Dessert potluck and slide show. The holiday social will be at Island Lakes Condominium Club House. Island Lakes Condominiums are located across from the K-Mart on Goodpasture Road. Bring a Christmas dessert and 6 - 10 slides to share. Call Charlene for more information at 465-1059 or 686-3221. If you would like to carpool meet at Amazon Center at 7:00pm.
- 11 Jan., Mon. Meeting, 8pm. Amazon Community Center. "Mysteries of the Monotropeae Revisited". Dan Luoma from OSU will present colorful slides and the latest information about the parasitic plants which are relatives of rhododendrons and huckleberries.

### High Desert

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For information, contact Joyce Bork (389-5579).

### Mid Columbia

- 2 Dec., Wed. Meeting at 7:30pm at the "Little Theater" of the Hood River High School, 1220 Indian Creek Road, Hood River. Peter Frenzen, Monument Specialist, will present "The Rejuvenation of Mt. St. Helens." Peter will discuss the mechanisms of the eruption, the effect on the plants and animals, and the results of more than 7 years of scientific study. For more information, contact Susan Kofahl (478-3576).



## North Coast

3 Dec., Thur.

Meeting, 7:00pm in the meeting room of the State Office Bldg., 3600 3rd Street, Tillamook.

7 Jan., Thur.

Meeting, 7:00pm in the meeting room of the State Office Bldg.

## Portland

8 Dec., Tues.

Meeting, 7:00pm. First United Methodist Church, 1838 SW Jefferson St., Portland. Bring 10 or so of your favorite slides to share with the other members and friends.

## Siskiyou

10 Dec., Thur.

Social and slide show, 7:30pm. Rm. 171, Science Bldg. SOSOC. Wayne Rolle will present a slide show on adventures in the little-known Ruby Mountains of Eastern Nevada. The Ruby's are a glaciated intermountain range with abundant streams and wildflowers. The mountains are in stark contrast to the surrounding deserts. After the slide show we'll celebrate the holidays with a Dessert Potluck. Bring a dessert to share or at least an appetite!

## Willamette Valley

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No meeting in December. For information, contact Pat Rogers-Rochna (769-4669).

## Wm. Cusick

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For information, contact Rachel Sines (963-0674).

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### NOMINATIONS ARE NOW OPEN

A Nominating Committee has been formed to prepare a slate of candidates for state officers and board members for 1988. Russ Holmes of the Emerald Chapter is the Nominating Committee Chairman. NPSO is seeking members willing to serve in the following positions: President, Vice-President, Secretary, Treasurer, and at-large Board Members. Please refer to the accompanying article for descriptions of these positions.

We all have a responsibility to contribute to the vitality of the organization. If you haven't taken a turn at serving on the Board of Directors, this should be the time! Please submit suggestions and nominations to Russ Holmes, 322 Arcadia Drive, Roseburg, OR 97470 (672-4635). A preliminary slate of candidates should be ready for publication in the next Bulletin.

### 1988 Columbia Gorge Days

Friends of the Columbia River Gorge has chosen June 18 and 19 for the Eighth Annual Hiking Weekend. Now is the time to start thinking about what trips you'd like to lead.

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### BUDGET COMMITTEE MEETING

The budget committee will meet on Friday, January 8, 1988 at 12 noon in the home of Marjorie Ettinger, 63820 Quail Haven Dr., Bend. A budget will be drafted to present to the Board of Directors at the January 30 meeting. Notice is hereby given to all interested parties (Officers, Committee Chairs, Board Members, panhandlers, etc.): if you seriously expect to receive any appropriations in 1988, you will submit your anticipated budget before this meeting.

Really, **please**, send me a request that covers what you think you will need to cover expenses. Thank-you,

Dan Luoma, Budget Committee Chair

---

### 1988 Annual Meeting

When you get that new 1988 calendar, be sure to mark off June 25 and 26. That's the weekend the Willamette Valley Chapter has chosen for hosting the 1988 NPSO Annual Meeting.

The meeting will be held at the conference center at Silver Creek Falls State Park, about 25 miles east of Salem.

SUKSDORF BOTANIC MUSEUM  
PROPOSED FOR THE COLUMBIA GORGE

On November 1 the following letter was sent from Rhoda Love to Mr. Stuart Chapin of the Columbia Gorge Commission. Readers who like the idea are encouraged to write to the Commission too.

Dear Mr. Chapin,

At the October 17 State Board Meeting of the Native Plant Society of Oregon, I made a proposal which was greeted with enthusiasm by the Board and which is related to future development of the Columbia Gorge Scenic Area. (I mentioned this idea to Richard Fairbanks at an earlier NPSO meeting in May, 1987, but am not sure the idea made it back to your Commission.) After some discussion of the idea, the NPSO Board (under the leadership of President Dan Luoma) requested that I write to you with the proposal. Thus, this letter.

My idea is based on the following: Wilhelm Nikolaus Suksdorf (1850-1932) was an early Northwest botanist and resident of the Columbia Gorge. At first Suksdorf (who was born in Germany), lived with his father and brothers in White Salmon, but from around 1888 on, until the end of his life, he lived in Bingen, a town that he and his brothers founded. Suksdorf collected and wrote extensively about the flora of Washington and Oregon, especially of Klickitat County. He corresponded with Asa Gray who named a genus after him, and with C. S. Sargent who gave Suksdorf's name to a local hawthorn variety. Suksdorf also worked for a time at Washington State University at Pullman and on June 9, 1928 was awarded an honorary Master of Science degree from that institution. (A very nice photo of the ceremony exists in the WSU archives.) Fifteen containers of Suksdorf's papers, occupying about 8 linear feet of shelf space are stored at WSU, and much of Suksdorf's herbarium material is kept at the Ownbey Herbarium there.

With that bit of background, my proposal is this: Could the Columbia Gorge National Scenic Area obtain the historic Suksdorf home in Bingen and, with the help of botanists and others from Washington and Oregon, turn the home into a Botanic Museum? As we well know, the Columbia Gorge area is botanically rich and unique, and the history of botanical exploration of the far west is a fascinating one. (Lewis and Clark, David Douglas, Henderson, Cusick, Piper and many others had colorful adventures and found and named many plants in the area.) There would thus be no lack of material to grace the museum. And I believe such a facility would be popular with Gorge visitors and make Bingen a destination for tourists.

I am sending a copy of this letter to Dr. A. R. Kruckeberg, editor and board member of the Washington Native Plant Society and fully expect the Washington group to share our enthusiasm for the project.

I hope the idea appeals to the Commission and that you will reply soon with their reaction. Please don't hesitate to call or write to me if you wish more information about the idea.

Yours most sincerely,

Dr. Rhoda M. Love,  
Immediate Past President  
Native Plant Society of Oregon

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Protecting the Flounce Rock Cypress

Flounce Rock is located a few miles north-east of Lost Creeek Dam, Jackson County, Oregon, and is the site of a small population of Cupressus bakeri Jeps. believed to be the northern limit of the species. A project to delineate the location and protect the Baker Cypress initiated by George Neville, Medford District BLM was brought to fruition September 26 when BLM personnel and NPSO Siskiyou Chapter members joined forces on Flounce Rock. The volunteers erected a sign near the Cypress grove proclaiming its historical and botanical significance. The sign, furnished by BLM, was unveiled by George Neville in a brief ceremony photographed by Joan SeEVERS, BLM botanist for the Medford District. The sign bears the following inscription:

NEVILLE-NYE MEMORIAL GROVE, CUPRESSUS  
BAKERI (BAKER CYPRESS). Nelson Nye (1871-  
1946), an early pioneer of this area, pointed  
out the "old juniper patch" to Dave Neville  
(1902-1985) in the 1920's while on a deer  
hunting trip. In the early 1950's Neville  
took two biology professors from Southern  
Oregon College of Education to the site and  
they identified the trees as Baker Cypress.  
This rare population represents the northern  
most location of any Cypress in western North  
America.

In addition to the above work, the volunteers constructed a sixty foot pole fence, which blocks the ORV road to the cypress grove, and posted signs explaining the reason for the road closure. Color slides of the work project were shown by Joan SeEVERS at the October meeting of the NPSO Siskiyou Chapter.

--Gordon Larum; NPSO Siskiyou Chapter

## A Forty-Six Foot Tower on the Summit of Marys Peak?

Six Oregon television stations would like to build a microwave relay station on the top of Marys Peak. Marys Peak is the highest point in the coast range. The area has numerous hiking trails, picnic sites, a camp ground, beautiful viewpoints, and a diversity of plant communities. The visitor use is estimated to be more than 70,000 people a year.

The television stations requested the Forest Service to allow commercial development of the peak. Until just recently, the Siuslaw Forest Service Plan had restricted use of the peak to "government use only" unless one obtained a permit. Now a decision is pending that would allow the peak to be opened to commercial use. KGW released plans for a 40 foot tall tower with a 6-foot tall antenna dome on top, and three large side-mounted antennas to be constructed at the summit of Marys Peak. The tower would be used to relay "live and timely news" from remote areas; the new tower would not broadcast to local viewers.

The summit of Marys Peak is not the only electronic communication site on the mountain. The city of Corvallis maintains a commercial electronics site a mile west of the peak in an ideal location for communication with the coast. Franklin Ridge is an existing electronics site only three miles southeast of the peak. Franklin Ridge has a clear line of sight to Portland, little scenic value, experiences milder weather than the peak, and has power access roads that are open all year around. Both of these existing commercial sites could be alternatives for the proposed repeater radio.

The summit of Marys Peak is included in the Marys Peak Scenic Botanical Special Interest Area. In 1980, the Scenic Botanical Plan was proposed, yet no action has followed through to final designation. The Marys Peak Scenic Botanical Plan is already being used by the Alsea Ranger District in management of the area and the boundary of the area has been physically delineated by markers since 1980. The summit area of Marys Peak includes a noble fir forest, grassland meadows and a rock garden community. Designation of the Marys Peak Scenic Botanical Special Interest Area would merely formalize an existing use for which management guidelines and action plans already exist. We should strongly encourage the U.S. Forest Service to proceed at once with the designation.

There is still time to protect the peak from unsightly structures and the impact of increased use by commercial electronics communications. Please ask for a continuation of the present policy (government use only). Some reasons why:

- Marys Peak is used heavily by recreationists who enjoy the view as unobstructed as possible

- Why not let the T.V. stations use existing commercial areas?

- Isn't this like opening up Pandora's box to commercial use?

- What about maintenance year around on the peak?

- Who pays the bill on the additional upkeep?

- What about vandalism?

Comments should be mailed as soon as possible to:

Mr. Tom Thompson  
Forest Supervisor  
Siuslaw National Forest  
PO Box 1148  
Corvallis, Oregon 97339

Thank you for your support for the protection of the plant communities on the summit of Marys Peak!

Esther Gruber McEvoy  
Corvallis Chapter

## NPSO, TNC Volunteers Remove Eyesore at McCall Preserve

Two dozen volunteers from the Nature Conservancy and the Portland and Mid-Columbia chapters of the Native Plant Society of Oregon cleaned up an old dump site which was prominently situated beside the new trail on the McCall Hilltop Addition. From 9 a.m. to 3 p.m. five dumptrucks full of assorted trash were sent away to the Wasco County Landfill. The State Parks Division provided a truck and staff to assist in this cooperative effort. Among the wide diversity of 'treasures' found, some folks were so unfortunate to encounter poison oak. But all agreed it was a remarkable improvement and well worth the hard work, dust (and for some, itching) to have this eyesore removed. Now the wildflowers, so appreciated on this preserve, can rightfully re-establish themselves there. More work parties are planned for Spring 1988 in order to control the invasion of knapweed.



WHAT IS THE GOVERNING BODY OF THE NATIVE PLANT SOCIETY OF OREGON?

Composition

Elected Positions

Four statewide officers: President, Vice-President, Secretary, and Treasurer.

Immediate Past President

Six Directors-at-large

Presidents of all affiliated local chapters

Appointed Positions

State Conservation Chair

State Legislative Chair

State Membership Chair

R/E Chair

Bulletin Editor

Description of Duties for Elected Positions

President

Presides at Board Meetings which are held three times a year, and any other general membership meeting as may be called for. This includes gathering and organizing agenda items. Acts as spokesperson for the Society. Handles various telephoning and correspondence according to need. Current President estimates time spent in an average month on Society business to be approximately eight hours. Serves one-year term.

Vice-President

Presides at meetings in the President's absence, and performs additional functions as required. Minimal telephoning and correspondence. Current Vice-President estimates less than two hours per month average spent on Society business. Serves one year.

Secretary

Keeps minutes during all meetings of the Board and any statewide membership meetings. Also prepares other directives, documents, or correspondence as are needed and authorized by the Board or President. Current Secretary states she spends about eight hours after each Board Meeting organizing the minutes in report form for the next meeting and in brief summary for the next issue of the Bulletin. Serves one-year term.

Treasurer

Maintains accounts of the Society's transactions. Makes deposits as well as disburses funds as ordered by the Board. Remits portion of membership dues to local chapter treasurers. Makes periodic maintenance payments to the Bulletin. Accepts and records funds from the Poster and Notecard promotions. Arranges for audits as required for State charitable tax status and for the annual Statewide Meeting. Prepares reports for each Board Meeting. Current Treasurer estimates her time commitment about two to three hours each month

for each Board Meeting. Current Treasurer estimates her time commitment to be two to three hours each month with slight increase around the annual Statewide Meeting. Serve one-year term.

Board Members - Directors-at-Large

Attend Board Meetings; provide input, vote on issues of concern. Three new directors are elected every year to serve two year terms. Travel and attendance at board meetings require about three days time per year.

*It should be emphasized that the amount of time spent in any officer capacity is most dependent upon the individual's own interest level and time frames rather than any rigid structure or formal expectations.*

Nomination and Election Timeline

Nominating Committee members canvass their local memberships for willing candidates prior to December 1st. Preliminary slate of candidates presented in January Bulletin. Amended slate of candidates (include additional candidates as well as brief capsule resume of each candidate) presented in February Bulletin.

Official voting ballot goes to the membership in the March Bulletin. Votes to be returned by April 1st and counted by Ballot Committee. New officers installed at the annual Statewide Meeting. In 1988 this will be held June 24, 25, 26 at Silver Creek Falls State Park.

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ONRC Sponsors Whale Watching Cruises

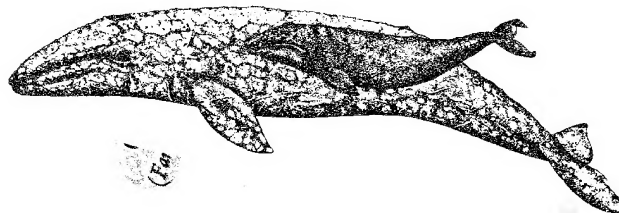
ONRC is sponsoring whale watching cruises to observe gray whale migrations along the Oregon Coast every Saturday and Sunday from December 19, 1987 through April 17, 1988.

The 2½ hour cruises depart from Embarcadero Dock, Newport, Oregon at 10 a.m. and 1 p.m. A naturalist will give a brief interpretive presentation about gray whales and be available to answer questions before every trip departs. Required advance registration is \$18.50 for adults and \$15 for children age 12 and under. Gift certificates are available. Proceeds from cruises will benefit ONRC's coastal conservation and education programs.

For more information and reservations call or write:

Oregon Natural Resources Council  
1161 Lincoln Street  
Eugene, Oregon 97401

Eugene area residents call 344-0677; others call toll free 1-800-922-6577.



## DARLINGTONIA SALVAGE AREA SOUGHT

Mr. Theo de Groot of the Cresco Nurseries in Holland has contacted the NPSO with an interesting request. His very extensive nursery is devoted to the culture of insectivorous plants. He has successfully grown various specimens of pitcher plant from tissue culture and propagated them from seed. He feels that with a supply of live material he can apply his techniques to *Darlingtonia californica*.

NPSO is, of course, pledged to protect *Darlingtonia* wherever it exists in the wild, however, we realize that there may be circumstances in which all avenues for saving a stand of the plant have been exhausted and destruction of the habitat is inevitable. The NPSO Board of Directors indicated at its January 10, 1987 meeting that, under the above circumstances, we could help Cresco Nursery obtain some living plants. A commercial supply of nursery-propagated *Darlingtonias* could take the pressure off our wild plants.

I (R. L.) have personally investigated Mr. de Groot and the Cresco Nursery and am convinced that his is a legitimate attempt to propagate the plants. Mr. de Groot has already taken advance steps to obtain the necessary CITES permits to export living plants to Holland. And he is prepared to fly to the U. S. and personally handle the salvage operation.

Could you please call or write NPSO if a *Darlingtonia* salvage area (no matter how small) comes to your attention?

Many thanks, Rhoda Love

## VOLUNTEERS SOUGHT

The Salem District of BLM is organizing a program for rehabilitating the area burned by the recent Rock House Creek Fire. This fire burned a portion of the Rickreall Ridge Area of Environmental Concern, a unique botanical area. Some firelines were built through fragile habitat areas within the ACEC. Part of the rehabilitation program involves replanting moss that was uprooted during fireline construction. This will require raking the areas to be restored and replacing the "original" moss which is lying nearby. Volunteers are being sought to help out with this aspect of the rehabilitation program and NPSO has been asked to provide assistance. If enough people volunteer for a given day, the BLM District will provide the necessary tools and instructions as well as transportation to and from the site. For the best results, the work needs to be done between now and the end of February - - - so get your group together and pick a day to work on a worthwhile project. For more information or to arrange time and date for your group, contact the Salem District Botanist, Larry Scofield, at 399-5630.

## MEMBERSHIP DUES

A special thank-you to those individuals and organizations whose generosity helped cover our extra expenses this year. Because of their donations, it appears a dues increase will not be necessary to balance our budget.

Speaking of dues, please be sure checks for dues are accompanied by a copy of the membership form (found in the Bulletin or the NPSO brochure.) This will greatly help Mary Falconer carry out her considerable duties.

Thank-you,  
Dan Luoma, President

## THE PORTLAND AUDUBON SOCIETY

A Chapter of The National Audubon Society

Cordially Invites You to Its  
**ANNUAL ART, CRAFT AND BOOK FAIR**  
**DECEMBER 4, 5, AND 6, 1987**

to be held at the  
World Forestry Center  
Miller Hall  
4033 SW Canyon Road  
Portland, Oregon

Festivities Begin with  
Wine and Hors d'oeuvres Opening Night  
December 4, 5:00 to 8:00 pm  
and Continue  
Saturday, 10:00 - 8:00  
Sunday, 10:00 - 5:00

## STATE COMMITTEE CHAIRS

NPSO Wildflower Posters & Pins . . . . . Susan Kofahl  
P.O. Box 151, Mosier, OR 97040; 478-3576

Notecards . . . . . George Lewis  
8230 SW Cashmure Lane, Portland, OR 97225; 292-0415

T-Shirts . . . . . Nadine Smith  
1128 Jackson St., Eugene, OR 97402; 344-6478

# STATE OFFICERS

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2912 NW Arthur Ave., Corvallis, OR 97330; 758-8063  
Vice President . . . . . Marjorie Willis  
1190 Twenty-first NE, Salem, OR 97301; 581-6073  
Secretary . . . . . Charlene Holzwarth  
2524 NE 34th Ave., Portland, OR 97212; 284-3444  
Treasurer . . . . . Marge Ettinger  
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Esther McEvoy, Russ Holmes, Dave Gross  
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11505 SW Summerville, Portland, OR 97219; 636-4112  
Legislative Chair . . . . . Esther McEvoy  
3290 SW Willamette, Corvallis, OR 97333; 754-0893

# CHAPTER PRESIDENTS

Blue Mountain (NE Oregon) . . . . . Bruce Barnes  
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Corvallis . . . . . Thomas Kaye  
Herbarium, OSU, Corvallis, OR 97331; 754-4106  
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2424 Harris St., Eugene, OR 97405; 344-0312  
High Desert (Bend area) . . . . . Joyce Bork  
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Portland . . . . . Herb Armentrout  
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Siskiyou . . . . . Wayne Rolfe  
311 High St., Ashland, OR 97520; 482-0093  
Willamette Valley (Salem area) . . . . . Pat Rogers-Rochna  
14382 Marion Road, Turner, OR 97392; 769-4669  
Wm. Cusick (LaGrande Area) . . . . . Rachel Sines  
504 C Ave., LaGrande, OR 97850; 963-0674

# MEMBERSHIP

Membership Chair . . . . . Mary Falconer  
1920 Engel Ave. NW, Salem, OR, 97304; 585-9419  
Membership in the Native Plant Society of Oregon is open  
to all. Membership applications & changes of address  
(including old address & zip code) should be sent to the  
membership chair.

# BULLETIN

Editor . . . . . Jan Anderson  
1960 Lovejoy #2, Portland, OR, 97209; 243-9242

The NPSO Bulletin is published monthly. Copy is due by  
the 10th of the month & should be sent to the editor.  
News, articles, photos, drawings, & non-copyrighted  
materials are welcomed.

# GUIDELINES FOR CONTRIBUTORS

The *Bulletin* is not typeset; therefore typed,  
camera-ready copy is much appreciated. But  
no submission will be rejected because it is  
not typed. Please proofread & check facts.  
DEADLINE: 10th of each month  
FORMAT: Copy should be typed in 4 1/4 inch wide  
columns, of any length. Author's name & chap-  
ter affiliation (or other organization) are  
typed at the end of the article. There is no  
standard paragraph treatment; one of these  
is suggested:

- \* for long articles, double space between  
paragraphs, but do not indent the first  
word of the paragraph
- \* for short articles or short paragraphs,  
when double spacing looks odd, indent  
the first word of the paragraph instead  
Type your own headline, centered, all caps.  
In case of special formats, e.g. plant keys,  
you are free to choose the layout.

CREDITS: For each submission, provide

- \* title
- \* author--specify whether byline is desired  
for news items
- \* instructions as to whether item is to be  
used in entirety or excerpted at editor's  
discretion

\* source & date if item is not original  
ILLUSTRATIONS: black & white prints, ink  
drawings, woodcuts, halftones, et al. We  
welcome small doodles as well as larger  
efforts. Please give source & date, if not  
original.

SCIENTIFIC NAMES should follow Hitchcock &  
Cronquist's *Flora of the Pacific Northwest*  
where possible. Use of both scientific &  
common names is encouraged. Genus & species  
names are underlined or italicized.

RETURN OF ORIGINALS: Manuscripts & illustra-  
tions will not be returned unless it is  
requested.

The *Bulletin* is published as a service to  
NPSO members & the public. Your suggestions  
& comments are always welcome.

# # #

# NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

CHAPTER (if known) \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PHONE \_\_\_\_\_

IS THIS A CHANGE OF ADDRESS? If so please  
write your OLD ADDRESS:

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

\* DUES include monthly news bulletin. Full membership runs from January through December. Quarter member-  
ship runs from September through December.

( ) NEW ( ) QUARTER MEMBERSHIP (\$2.50) ( ) RENEWAL

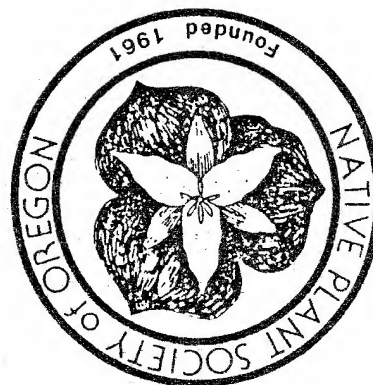
( ) Student . . . . .	\$ 7.50	( ) Sustaining . . . . .	\$ 25.00
( ) Regular . . . . .	10.00	( ) Patron . . . . .	100.00
( ) Family membership . . . . .	15.00	( ) Life member . . . . .	500.00

\*CONTRIBUTIONS: Jean Davis Memorial Award Fund . . . \$ \_\_\_\_\_  
Rare and Endangered Plant Fund . . . \$ \_\_\_\_\_

\*All contributions to the Native Plant Society of Oregon, a non-profit organization, are tax deductible.  
Please make checks for dues & contributions payable to NATIVE PLANT SOCIETY OF OREGON. Send completed form  
& full remittance to: MARY FALCONER, NPSO MEMBERSHIP CHAIR, 1920 Engel Ave. NW, Salem, OR 97304.



TIME DATED MAIL



Native Plant Society of Oregon  
2584 NW Savier Street  
Portland, OR 97210

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